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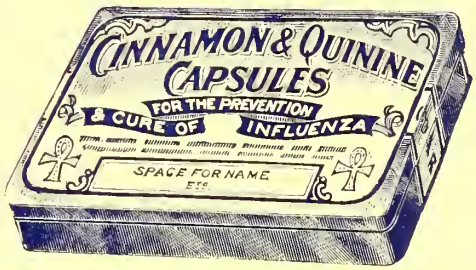

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Bell, John, Hills & Lucas, Ltd.
Blackie, R.
Burroughs Wellcome & Co.
Calvert, F. C., & Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Eucryl, Ltd.
Hall & Ruckel
Jewsbury & Brown
Lamhert Pharmacal Co.
McKesson & Robbins
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Pierre, Dr.
Rowland, A., & Sons
Standard Tablet & Pill Co.
Woods, W., & Son
Woolley, J., Sons & Co., Ltd.

DEXTRINE
Fink, F., & Co.

DIABETIC BREAD AND FOOD
Callard & Co.
Van Abbott, G., & Sons

DIGESTIVE PRODUCTS
Armour & Co., Ltd.
Benger's Food, Ltd.
Fairchild Bros. & Foster
Parke, Davis & Co.
Squire & Sons
Zimmermann, C., & Co.

DISINFECTANTS
Baiss Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood, Ltd.
Calvert, F. C., & Co.
Condy & Mitchell, Ltd.
Cook, E., & Co., Ltd.
Dalmas, A de St., & Co.
Edwards, W., & Son
Jeyes' Sanitary Compounds, Ltd.
Kay Bros., Ltd.
Lambert Pharmacal Co.
Sanitas Co., Ltd.
Tomlinson & Hayward, Ltd.
Willows, Francis B. & T.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co.

DOSE REGULATORS
Maw, S., Son & Soos
Reuter, R. J.

DRUGGISTS' SUNDRIES
Ayrton, Saunders & Co., Ltd.
Barclay & Sons, Ltd.
Berliner, Arthur
Burge, Warren & Ridgley
Bush, H. W., & Co., Ltd.

DRUGGISTS' SUNDRIES (*continued*)
Chemist's Co-operativeWholesale
Christy, T., & Co.
Davis, J. M., & Sons
Edwards, W., & Son
Evans Sons Lescher & Webb,Ltd.
Hewlett, C. J., & Sons
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Poths, H., & Co.
Quelch, H. C., & Co.
Renter, R. J.
Sangers'
Schutze, F., & Co.
Shirley Bros., Ltd.
Solport Bros.
Southall Bros. & Barclay, Ltd.
Tidman & Son, Ltd.
Toogood, W., Ltd.
Viscose Co., Ltd.
Wattenbach, O.
Wood, Vincent
Woolley, J., Sons & Co.

DRUGS, CRUDE
Carmichael, F. J., & Co.
Gathergood's Exor.
Horner & Sons
Hymans, H., & Co.
Potter & Clarke, Ltd.
Ransom, W., & Son
Salle, H., & Cie.

DRYSALTERIES
Harker, Stagg & Morgan, Ltd.

DYES
Judson, D., & Son
Whitaker & Co. (Hat)

EAR MOPS.
Cooper, R. H., & Co.

EAU DE COLOGNE
Farina, J. M.
Farina, J. M. (No. 4)
Fickus, Conrtenay & Co.
McCracken, J. & R.
Schutze, F., & Co.

EDUCATIONAL INSTITUTIONS
Bath and West of England College of Pharmacy
British Optical Institote
Edinburgh Central School of Pharmacy
Glasgow School of Pharmacy
Leeds College of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
Manchester College of Pharmacy
Muter's (So. Lond.) School of Pharmacy
North of England School of Pharmacy
Northern College of Pharmacy
Nottingham School of Pharm.
Pharmaceutical Society's School of Pharmacy
Royal Dispensary (Edinburgh)
South of England College of Pharmacy
Westminster College of Pharm.

EFFERVESCENT PREPS.
Allen & Hanburys, Ltd.
Bishop, Alfred, Ltd.
Blackie, R.
Bristol-Myers Co.
Cox, A. H., & Co., Ltd.
Evans Sons Lescher & Webb,Ltd.
Goodall, Backhouse & Co.
Howards & Sons, Ltd.
Kutnow, S., & Co., Ltd.
Lorimer & Co., Ltd.
Newhall & Masnn
Potter & Clarke
Standard Tablet & Pill Co.
Sturge, John & E.
Tyrer, T., & Co., Ltd.
Wright, Layman & Umney

ELASTIC HOSIERY
Ayrton, Saunders & Co., Ltd.
Berliner, Arthur
Burge, Warren & Ridgley, Ltd.
Haywood, J. H.
Maw, S., Son & Sons
Wood, Vinceot

EMERY AND CLOTH
Oakey, J., & Sons, Ltd.

EMULSIONS, COD-LIVER OIL, ETC.
Allen & Hanburys, Ltd.
Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
British Drug Houses, Ltd.
Faulding, F. H., & Co.
Harker, Stagg & Morgan, Ltd.
Lorimer & Co., Ltd.
Oldfield, Pattinson & Co.
Parke, Davis & Co.
Scott & Bowne, Ltd.
Tolkien, C., & Co.
Woolley, Jas., Sons & Co.

ENEMAS
Bailey, W. H., & Son
Burge, Warren & Ridgley
Davol Rubber Co.
Maw, S., Son & Sons
Toogood, W., Ltd.
Warne, W., & Co., Ltd.

ENTOMOLOG. APPARATUS
Watkins & Doncaster

EPSOM SALTS
Howards & Sons, Ltd.

ESSENCES, CONCRETE
Lautier Fils
Murray, O., & Co., Ltd.
Schmoller & Bompard

ESSENCES, SOL. AND FRUIT
Alliance Drug & Chem. Co.
Barnett & Foster
Bush, W. J., & Co., Ltd.
Evans Sons Lescher & Webb
Hay, Wm., Ltd.
Lautier Fils
London Essence Co.
Lorimer & Co., Ltd.
Newball & Mason
Spencer, J., Son & Co.
Stevenson & Howell, Ltd.
Zimmermann, A. & M.

ETHERS
Baiss Bros. & Stevenson, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

EUCALYPTUS OIL
Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.
Hymans, H., & Co.

EXTRACT OF HERBS
Newball & Mason
Potter & Clarke

EXTRACTS (MEDICINAL)
Allen, Strafford, & Sons, Ltd.
Chemist's Co-operative Wholesale
Gathergood's Exor.
Hewlett, C. J., & Son
Parke, Davis & Co.
Ransom, W., & Son
(*See also* WHOLESALE DRUGGISTS)

FEEDING BOTTLES
Breffit, E., & Co., Ltd.
Hovenden R., & Sons, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
Sangers'
Southall Bros. & Barclay, Ltd.

FILTERS (WATER)
Berkefeld Filter Co., Ltd.

FLESH GLOVES
Sangers'

FLYCATCHERS
Deansmere Manfg. Co.
Ford, Shapland & Co.
Kay Bros., Ltd.
Smith, J. H., & Co.
Tunbridge & Wright

FOODS, INFANTS'
Allen & Hanburys, Ltd.
Benger's Food, Ltd.
Frame Food Co., Ltd.
Lofthouse & Saltmer
Natural Food Co., Ltd.
Willows, Francis, B. & T.

FOODS, SPECIAL
Allen & Hanburys, Ltd.
Bayer Co., Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
Burt, C. J.
Bovo, Ltd.
Callard & Co.
Fairchild Bros. & Foster
Frame Food Co., Ltd.

FOODS, SPECIAL (*continued*)
Menley & James, Ltd.
Natural Food Co., Ltd.
Wander, A.

FORMALDEHYDE
Burt, Boulton & Haywood

FRUIT CRYSTALS
Aerators, Ltd.

FRUIT SYRUPS
Idris & Co., Ltd

FULLER'S EARTH
Mumford, G. S., & Sons

FUMIGATORS
Sanitas Co., Ltd.

GELATIN AND GLUE
Boehm, F., Ltd.

GLASSWARE, CHEMICAL
Zahradnik, Jos.

GLAUBER'S SALT
Bramwell, E., & Son
Howards & Sons, Ltd.

GLYCERIN
Boehm, F., Ltd.
Price's Patent Candle Co.

GLYCERIN PLANT
Forshaw, E., & Son, Ltd.

GLYCEROPHOSPHATES
Pointet & Girard

GOLD PAINT
Judson, D., & Son

GRINDERS
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T.

GUMS
Fink, F., & Co.

HAIR PREPARATIONS
Capsuloids (1909), Ltd.
Chesebrough Manfg. Co.
Edwards' "Harlene" Co.
Harker, Stagg & Morgan
Herpicide Co.
John Strange Winter
Ni-Verre Chemical Co.
Oatine Co.
Pomeroy, Mrs., Ltd.
Robare's Aureoline
Rowland, A., & Sons
To-Kalon Mnfg. Co., Ltd.

HAT DYES
Whitaker & Co.

HAT RENOVATORS
Christy, T., & Co.

HEATING APPARATUS
Clark, S., & Co.
Wright, John, & Co.

HERBS
Carmichael, F. J., & Co.
Potter & Clarke

HOMŒOPATHIC MEDICINES
Ashton & Parsons, Ltd.
Epps, James, & Co.
Keene & Ashwell, Ltd.
Leath & Ross

HOTELS
Esmond Hotel
Kingsley Hotel
Thackeray Hotel

HOT-WATER BOTTLES
Berliner, Arthur
Burge, Warren & Ridgley
Dunlop Rubber Co., Ltd.
Fulham Pottery & Cheavin Filter Co., Ltd.
Galen Mfg. Co., Ltd.
Hutchinson Co.
Maw, S., Son & Sons
May, Roberts & Co.
Southall Bros. & Barclay
Tompkins, James, Ltd.
Wood, Vincent

HYDROGEN PEROXIDE
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co., Ltd.

HYPOPHOSPHITES
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

INHALERS
Christy, T., & Co.
Sangers'

INK
Bewley & Draper, Ltd.
Hickisson, A. B.

INSECTICIDES
Christy, Thos., & Co.
Smith, B. A., & Co.
Tomlinson & Hayward, Ltd.
Vaporite-Strawson Co., Ltd.

INSECT POWDER
Boehm, F., Ltd.
Smith, B. A., & Co.

IODINE AND IODIDES
Howards & Sons, Ltd.
Morson, T., & Son

ITROSYL
Fletcher, Fletcher & Co.

JARS AND POTS
Breffit, E., & Co., Ltd.
Bush, H. W., & Co., Ltd.
Christy T., & Co.
Johnsen & Jorgensen, Ltd.
Kilner Bros., Ltd.
Lang, Jules, & Son
Maw, S., Son & Sons
Poths, H., & Co.
Reuter, R. J.
Stipendum Stopper Co.
Toogood, W., Ltd.

LACTIC FERMENTS
Allen & Hanburys, Ltd.
Cox, Arthur H., & Co., Ltd.
Davies, Sons & Co.
Martindale, W.
Parke, Davis & Co.
Standard Tablet Co.
Wilcox, Jozeau & Co.

LANOLINE
Burroughs Wellcome & Co.
Christy, T., & Co.

LARD
Chemist's Co-operative Wholesale
Ewen, J., & Sons

LIME JUICE AND CORDIAL
Evans Sons Lescher & Webb
Goodall, Backhouse & Co.
Idris & Co., Ltd.

LINSEED, CRUSHED, ETC.
Allen, Stafford, & Sons
Mumford, G. S., & Sons

LINTS
Liverpool Lint Co.
Robinson & Sons, Ltd.
Vernoo & Co., Ltd.

LIQUORICE JUICE
Boehm, F., Ltd.
British Drug Houses, Ltd.
Carmichael, F. J., & Co.
Evans, Gray & Hood
Evans Sons Lescher & Webb, Ltd
Horner & Sons
Jackson, E. E.
Mumford, G. S., & Sons

LIQUORS, CONC., ETC.
Allen, Stafford, & Sons, Ltd.
Fletcher, Fletcher & Co.
Hewlett, C. J., & Son
Robinson, B., & Co.

LITHIA SALTS
British Drug Houses, Ltd.
May & Baker, Ltd.
Merck, E.

LOOFAHS
International Sponge Importers

LOZENGES
Cox, A. H., & Co., Ltd.
Denoual, J., & Co.
Jackson, E. E.
Meggeson & Co., Ltd.
Potter & Clarke
Raimes & Co.
Warrick Bros.

MACHINERY, PHARMACAL
Allen & Hanburys, Ltd.
Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Ltd.
Forshaw, E., & Son, Ltd.
Gardner, Wm., & Sons, Ltd.
Pindar, J. W., & Co.
Smith, B. A., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper (Stokes)
Wilkinson, S. W., & Co.

MAGNESIA AND ITS SALTS
Henry, T. & W.
Howards & Sons, Ltd.
May & Baker, Ltd.
Washington Chemical Co.

MENTHOL CONES
Bush, H. W., & Co., Ltd.
Maw, S., Son & Sons

MAILING CASES
Estes, E. B., & Sons

MARKING INK
Hickisson, A. (Bond's)

MEDICINE CHESTS
Burroughs Wellcome & Co.
Keene & Ashwell, Ltd.
Leath & Ross
Lloyd, T. Howard, & Co.
Parke, Davis & Co.

MALT EXTRACT AND PREPS
Allen & Hanburys, Ltd.
Blackie R
British DiaMalt Co.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb
Hewlett C. J., & Son
Lorimer & Co., Ltd.
Montgomerie & Co., Ltd.
Oppenheimer, Son & Co., Ltd.
Paine & Co., Ltd.
Southall Bros. & Barclay, Ltd.
Tolkien, C., & Co.
Woolley, Jas., Sons & Co., Ltd.
Wright, Layman & Umney

MEASURES
Bush, H. W., & Co., Ltd.

MEAT EXTRACTS
Armour & Co., Ltd.
Brand & Co., Ltd.
Bovo, Ltd.

MERCURIALS
Howards & Sons, Ltd.
May & Baker, Ltd.
Merck, E.
Tyrer, T., & Co., Ltd.

METEOROLOGICAL SETS
Darton, F., & Co.

METHYLATED SPIRIT
Burrough, J., Ltd.
Preston's Liverpool Distillery
Randall & Son, Ltd.

MILK APPARATUS
Zimmermann, C., & Co.

MILK SUGAR
Zimmermann, C., & Co.

MINERAL WATERS AND SALTS
Apollinaris Co., Ltd.
British Drug Houses, Ltd.
Hughes, E. Griffiths
Ingram & Royle, Ltd.
Vichy (State Springs)

MIRRORS, TOILET
Sangers

MOTOR GOGGLES
Darton, F., & Co.

NAPHTHAS
Burt, Boulton & Haywood

OILS, ESSENTIAL
Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chem. Co.
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Evans Sons Lescher & Webb, Ltd.
Horner & Sons
Jakson, J., & Co.
Lautier Fils
Lhermine & Cie
London Essence Co.
Mühlethaler, Th., Ltd.
Pasquale, S. F. de, & Fratelli
Poppelreuter, W.
Ransom, W., & Son
Scheller, Emil, & Co.
Schimmel & Co.
Schmoller & Bompard
Seymour, J.
Spencer, J., Son & Co.
Stevenson & Howell, Ltd.
Todd, A. M., Co.
Whittaker, Arthur
Wright, Layman & Umney
Zimmermann, A. & M.

OILS, FATTY, ETC.
Allen, Stafford, & Sons, Ltd.
Price's Patent Candle Co.
Schliemann's Oil & Cerosine Co.
Smith, B. A., & Co.

OILS, MINERAL
Carmichael, F. J., & Co.
Price's Patent Candle Co.

OINTMENTS
Blackie, R.
Chemist's Co-operative Wholesale
Oldfield Pattinson & Co.

OPTICAL GOODS
Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Nitsche & Günther
Raphael's, Ltd.

OTTO OF ROSE
Bontcheff & Kidoff
Reitmeyer & Co. (synthetic)
Scheller, Emil & Co.
Seraphimoff, S., & Co.
Shipkoff & Co.

OPTICAL INSTRUCTION
British Optical Institute
ORANGE WINE
Melrose-Drover Co., Ltd.
PACKED GOODS
(See WHOLESALE)
PALATINOIDS
Oppenheimer, Son & Co.
PASTILLES
Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Burroughs Wellcome & Co.
Denoual, J., & Co.
Epps, James, & Co.
Evans Sons Lescher & Webb
Meggeson & Co., Ltd.
Warrick Bros.
PATENT AGENT
Barker, R. W.
PERFUMES
Allen & Hanburys, Ltd.
Barclay & Sons, Ltd.
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Chuit, Naef & Co.
Erasmic Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Hewlett, C. J., & Son
Hovenden, R., & Sons, Ltd.
Lescol Perfumery Co.
McCracken, J. & R.
Maw, S., Son & Sons
Morison, G. H., & Co., Ltd.
Newbery, F., & Sons, Ltd.
Oatine Co.
Queloh, H. C., & Co.
Southall Bros. & Barclay
Spencer, J., Son & Co.
To-Kalon Mnfg. Co., Ltd.
Warrick Bros.
West, T., & Son
PERFUME MATERIALS
Bontcheff & Kidoff
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Compagnie Morana
Lautier Fils
Mühlethaler, Th., Ltd.
Murray, C., & Co., Ltd.
Scheller Emil & Co.
Schimmel & Co.
Shipkoff & Co.
Spencer, J., Son & Co.
Zimmermann, C., & Co.
PESSARIES
Burge, Warren & Ridgley
Rendell, W. J.
PETROLEUM EMULSION
British Drug Houses, Ltd.
PETROLEUM JELLY
Carmichael, F. J., & Co.
Chesebrough Mfg. Co.
Schliemann's Oil & Ceresine Co.
PHOTO. CHEMICALS
Boehringer, C. F., & Soehne
Burroughs Wellcome & Co.
Merck, E.
PHOTO. ENLARGERS, PRINTERS, &c.
Express Developing Co.
Halifax Photographic Co.
PHOTO. GOODS
Barclay & Sons, Ltd.
Darton, F., & Co.
Evans Sons Lescher & Webb
Halifax Photographic Co.
Ilford, Ltd.
Lennon, Ltd.
May, Roberts & Co.
Newbery, F., & Sons, Ltd
Thames Colour Plate, Ltd.
PILL MAKERS
Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Bishop, Alfred, Ltd.
British Drug Houses, Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Evans Sons Lescher & Webb, Ltd.
Hewlett, C. J., & Son
Howards & Sons, Ltd.
Lloyd, T. Howard, & Co.
McKesson & Robbins
Parke, Davis & Co.
Standard Tablet & Pill Co.
Wand Mfg. Co.
Woolley, J., Sons & Co., Ltd.
PLASTIC MODELS
Plastic Advertisement Co.
PRINTERS
Dudley & Co.
Ford, Shapland & Co.
Harrison & Waide
Parkes John & Co.
Smith, W. H., & Son
Townsend, J., & Sons

PLASTERS
Allcock Mnfg. Co.
Berliner, Arthur
Beiersdorf, P., & Co.
Dalmas A. de St., & Co.
Leslies, Ltd.
Maw, S., Son & Sons
Solport Bros.

POLISHES (VARIOUS)
Bradley & Bourdas
Judson, Daniel, & Son
Oakey, J., & Son, Ltd.

POSTERS
Ford, Shapland & Co.

PROPRIETARY ARTICLES
Anglo-American Drug Co.
Ashton & Parsons, Ltd.
Barclay & Sons, Ltd.
Bayer Co., Ltd.
Beecham, T.
Beiersdorf, P., & Co.
Box, W. H.
British Drug Houses, Ltd.
Burgess, E.
Capsuloids (1909), Ltd.
Chameleon Oil Co., Ltd.
Christy, T., & Co.
Coleman & Co., Ltd.
Cougreve, G. T.
Conoid Co.
Cox, A. H., & Co., Ltd.
Curry, Henry
Daggett & Ramsdell
Daisy, Ltd.
Danysz Virus, Ltd.
Da Silva & Co.
Davenport, J. T., Ltd.
Day & Sons (Crewe), Ltd.
Denoual, J., & Co.
Ecsolent Compounds, Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Faulding, F. H., & Co.
Fellows' Syrup
Fennings, Alfred
Ferris & Co.
Fulford, C. E., Ltd.
Goodall, Backhouse & Co.
Gordon, Murray & Co., Ltd.
Grapelax, Ltd.
Guy's Tonic Co.
Henry, T. & W.
Hovenden, R., & Sons, Ltd.
Hughes, E. Griffiths
Ichthyol Co.
International Chemical Co.
Iron-Ox Rem. Co., Ltd.
Kay Bros., Ltd.
Kutnow, S., & Co., Ltd.
Lalor's, Dr., Phosphodyne
Lambert Pharmacal Co.
Lofthouse & Saltmer
Lorimer & Co., Ltd.
Martindale, W.
Martha Co.
May, Roberts & Co.
Menley & James, Ltd.
Newbery, F., & Sons, Ltd.
Oatine Co.
Odol Chemical Works
Owbridge, W. T., Ltd.
Pedezy Co.
Phillips, Chas H., Chem. Co.
Quinine Bitters Mnfg. Co., Ltd.
Reitmeyer & Co.
Resinol Chemical Co.
Sangers'
Schimmel & Co.
Scott & Bowne, Ltd.
Squire & Sons
Standard Tablet & Pill Co.
Stedman's Teething Powders
Thermogene Co., Ltd.
Thompson & Capper
Voss & Co.
Walker & Son
Wilcox, Jozeau & Co.
Zimmermann, A. & M.
Zotos, Ltd.
(*See also* DENTIFRICES and TOILET ARTICLES

PULVELLÆ
Warrick Bros.

PULVERETTES
Oppenheimer, Son & Co., Ltd.

PUMPS
Berkefeld Filter Co., Ltd.

QUININE AND SALTS
Boehringer, C. F., & Soehne
Carmichael, F. J., & Co.
Howards & Sons, Ltd.
Pointet & Girard

RAPE OILS
Hull Oil Mnfg. Co.
RAZORS
Auto-Strop Safety Razor Co.
Hovenden, R., & Sons, Ltd.
International Distributing Co
RESINS AND RESINOIDS
Allen, S., & Sons, Ltd.
Allen & Hanburys, Ltd.
Morson, T., & Son
Ransom, W., & Son
Smith, T. H., Ltd.
RENNET
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.
RESPIRATORS
Zimmer & Co.
RUBBER GOODS
Burge, Warren & Ridgley, Ltd.
Davol Rubber Co.
Dunlop Rubber Co., Ltd
Fecher, M. J.
Galen Mfg. Co.
Haywood, J. H.
Hovenden, R., & Sons, Ltd.
Hutchinson Co.
Maw, S., Son & Sons
May, Roberts & Co.
Warne, W., & Co., Ltd.
SACCHARIN
Saccharin Corporation, Ltd
SALICIN
Macfarlan, J. F., & Co.
Smith, T. & H., Ltd.
SAMPLE CASES
Keane, Thomas
SANTONIN
Smith, B. A., & Co.
SAPONIN
Field, C. W.
Sthamer, Dr. R.
SAUCES
Goodall, Backhouse & Co.
SCALE PREPARATIONS
Morson, T., & Son
SCALES, WEIGHING
Maw, S., Son & Sons
Parnall & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
SEA SALT
Tidman & Son, Ltd.
SEA-SICKNESS REMEDY
Zotos, Ltd.
SELTZOGENES
Aerators, Ltd.
SERUMS AND ANTITOXINS
Allen & Hanburys, Ltd.
American Animal Therapy Co.
Evans Sons Lescher & Webb, Ltd.
Parke, Davis & Co.
Schimmel & Co.
Wilcox, Jozeau & Co.
SHARES
McAdam & Tuckniss
SHEEP-DIPS
Burt, Boulton & Haywood
Sanitas Co., Ltd.
Tomlinson & Hayward, Ltd.
SHOP-FITTING
Ayrton-Graham, Ltd.
Bowling & Son
Evans Sons Lescher & Webb, Ltd.
Joseph, P., & Son
Maw, S., Son & Sons
Mills, H.
Parnall & Sons, Ltd.
Rudduck & Co.
Sangers'
Southall Bros. & Barclay, Ltd.
SOAPS
Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Bell (John), Hills & Lucas, Ltd.
Bronnley, H., & Co., Ltd.
Chesebrough Mfg. Co.
Cook, E., & Co. Ltd.
Erasmic Co., Ltd.
Evans Sons Lescher & Webb, Ltd
Hull Oil Mfg. Co., Ltd.
International Distributing Co.
Lescol Perfumery Co.
Oakley, J., & Son, Ltd.
Oatine Co.
Pears, A. & F., Ltd.
Peat Products (Sphagnol), Ltd.
Price's Patent Candle Co.
Shaw, Henry, & Co.
Wright, Layman & Umney
SODA FOUNTAINS
British Automatic Aerators, Ltd.
SOAP PLANT
Forshaw, E., & Son, Ltd.

SOAP MATERIALS
Armour & Co., Ltd.
Chiris, Antoine
SOAPS, MEDICATED
Armour & Co., Ltd.
Bronnley, H., & Co., Ltd.
Calvert, F. C., & Co.
Lambert Pharmacal Co.
Resinol Chemical Co.
Wright, Layman & Umney
SODIUM BICARBONATE
Brunner, Mond & Co., Ltd.
Howards & Sons, Ltd.
Mumford, G. S.
SOIL INSECTICIDE.
Vaporite-Strawson Co., Ltd.
SOYA OIL
Hull Oil Mnfg. Co.
SPARKLETS
Aerators, Ltd.
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The Gold Medal for the year 1908–9 given by the Trustees of the "Henderson Bequest" for the greatest advance in Photography has been awarded to Mr. C. L. Finlay for his invention of the Thames Colour Plate.

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The Company has been formed for the purposes mentioned in the Memorandum of Association, and particularly to purchase the inventions and letters patent of the Thames Colour Plate Company, and acquire the business of manufacturers of photographic colour plates, materials, etc. (which has been hitherto carried on by Messrs. Oliver S. Dawson and Clare L. Finlay), with a view to the further development and, if found desirable, subsequent sale thereof to a larger Company.

Colour plays an overwhelming part in the beauty of the world around us. It has been the ardent desire of all photographers to have some means of obtaining permanent records in natural colours of the object or scene photographed, and which, though depicted on the focussing glass of their cameras, ordinary photography, excellent as it may be, entirely fails to produce. Many attempts have been made in this direction, and some fairly satisfactory results have been obtained, but the success has been mainly of an interesting and academical nature, the processes employed being very elaborate, very slow, and much too expensive and difficult for the ordinary worker. Something simpler, cheaper, and not demanding the skill of the trained hand was urgently needed.

It remained for a British investigator, Mr. C. L. Finlay, to discover, or rather invent, and, in co-operation with another Englishman, Mr. O. S. Dawson, bring to perfection a photographic colour plate possessing all these necessary desiderata. For nearly four years these two men have devoted themselves to the production of this plate, and now it may confidently be asserted that the Thames Colour Plate foreshadows a REVOLUTION IN AMATEUR AND PROFESSIONAL PHOTOGRAPHY that can only be compared with the introduction of the gelatine dry plate.

The inventors claim—

That by means of the plate photographs can be obtained in natural colours in any ordinary camera at one exposure on one plate.

That any number of duplicates can be made.

That it is extremely simple, rapid, and convenient in use.

That it presents no difficulty in working or development.

That it can also be used for commercial and scientific purposes where colour is essential; also for facilitating the making of colour blocks for magazines, etc., at a very low cost.

Scientists of high repute have given their opinion on the plate after actual use in the very highest terms, it having been stated that the plate "SATISFIED THE LAWS OF COLOUR PRODUCTION, AND WILL THEREFORE REPRODUCE EVERY COLOUR IN NATURE."

Testimonials have been received by the inventors as to the merits, utility, etc., of the plate covering practically the whole photographic field—AS TO ITS USES GENERALLY from E. J. Wall, Esq., F.R.P.S. (author of the "Dictionary of Photography"); AS TO ITS USE FOR SCIENTIFIC PURPOSES from S. E. Bottomley, Esq., F.R.P.S., of Leeds; AS TO ITS USE FOR PORTRAITURE AND GENERAL PURPOSES from H. Essenhigh Corke, Esq., F.R.P.S.; and AS TO ITS USE FOR TECHNICAL AND COMMERCIAL PURPOSES from A. E. Walsham, Esq.; and copies of same are enclosed with the Prospectus on a separate sheet.

Copies of the full Prospectus (of the issue of which this is intended to be merely a notice, and upon the terms of which alone applications for Shares will be received), and forms of application can be obtained from the Solicitors, Messrs. Ashley, Tee & Sons, of 7 Fredericks Place, Old Jewry, E.C., or Messrs. Guscotte & Fowler, of 1 York Buildings, Adelphi, W.C., or the Bankers, Messrs. Barclay & Co., Limited, 54 Lombard Street, E.C., or of the Secretary, at the Company's offices, Broad Street Avenue, E.C.

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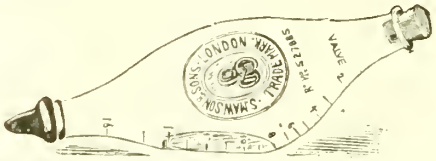

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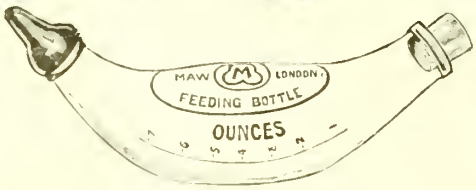

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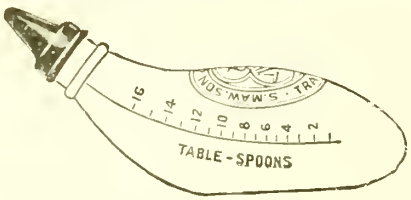

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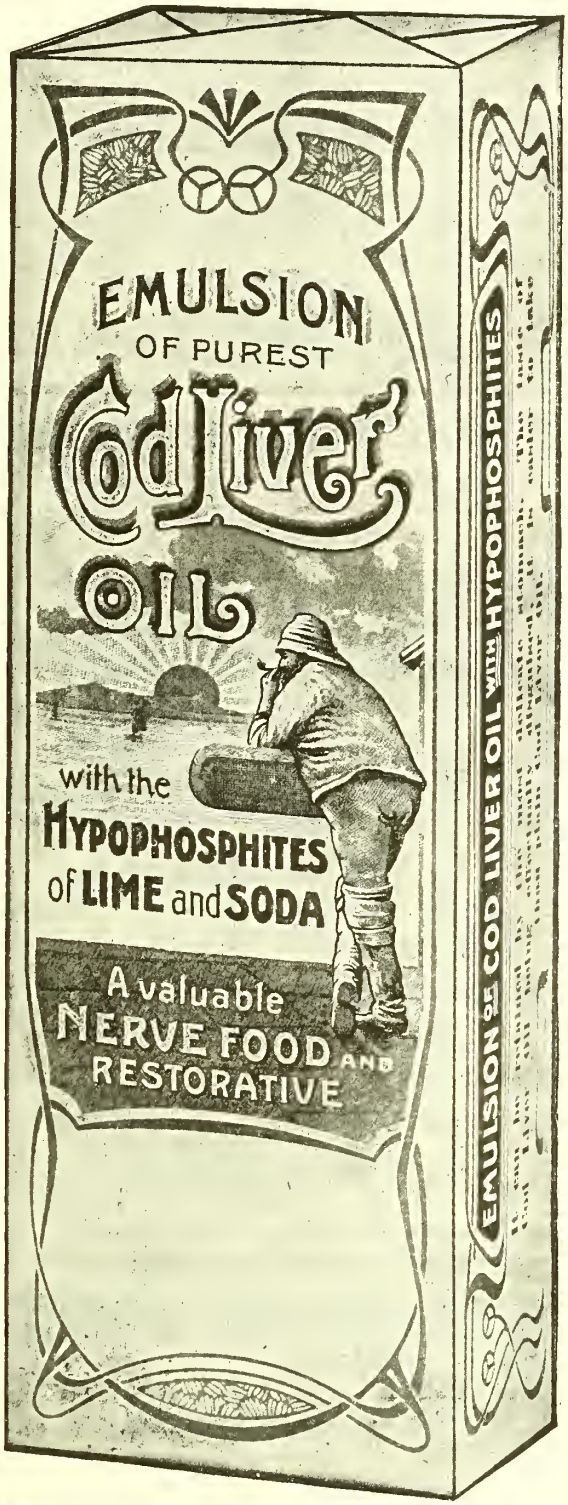

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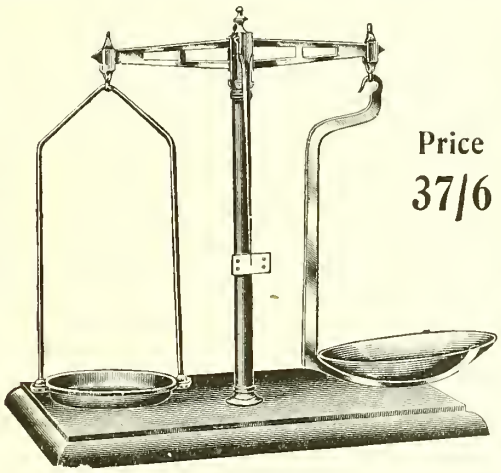

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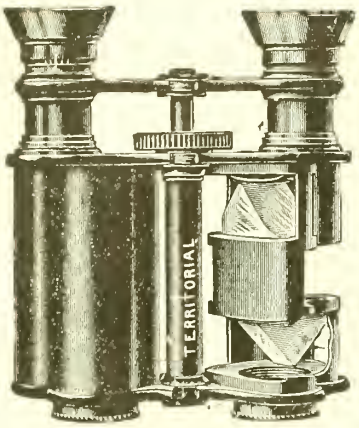

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TRADE PRICE ON APPLICATION.

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RAPHAEL'S

LIMITED.

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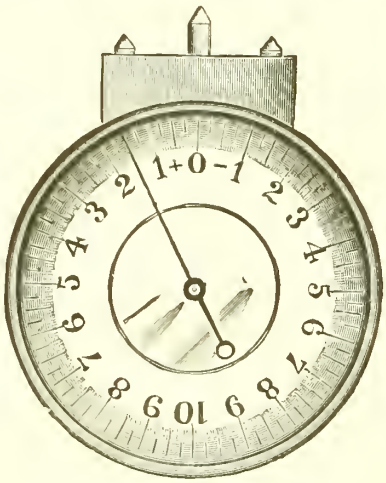
FOR MEASURING

Spherical and Cylindrical Lenses.

Price **17/6** each post free.



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Spectacle and Eyeglass Makers.

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The "SWALLOW" STICKY FLY PAPER.

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ILLUSTRATED COUNTER BILLS. CABINET PAPER.
FOLDING CARDBOARD BOXES. TOILET ROLLS.
POSTERS. SHOWCARDS. WINDOW BILLS.

Labels (of every description), **Price Lists, Pamphlets, Circulars, Billheads Cards, Memorandums, Prescription Envelopes,** and all kinds of PRINTING and Stationery required by Chemists, at most moderate Prices.

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Great Reduction in Prices.

Cash Registers from £4 upwards.

Autographics, £1 to £6.

Use a National Cash Register in your shop!
It will save you money, mistakes it will stop,
Protecting your Customers, trade will increase,
Your time will be saved, and your worry decrease.

We accept monthly instalments if required. Established 20 years.

Our Machines Guaranteed to be Cheaper and Better than any other make.

New Machines at lower prices than those charged by other dealers for similar machines second-hand

Write for particulars, or call at any of our Show Rooms and inspect our stock, where we have Cash Registers suitable for every class of shop, from the smallest to the largest.

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SOLE AGENTS FOR **VICHY** (STATE SPRINGS).

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THE "COMPACT" MACHINES are specially designed for CHEMISTS, GROCERS, RESTAURATEURS, and everyone to whom space is an object, and can be used for filling Syphons, Codd's Bottles, or Cork Bottles.

OCCUPY LITTLE SPACE!
ARE READY FOR USE IMMEDIATELY!
REQUIRE NO FIXING!

Produce Soda Water, Lemonade, &c., of the highest class and greatest purity.

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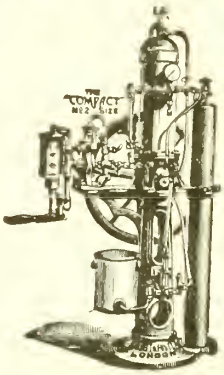

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Bottles, Boxes, Essences, and all Requisites for the Trade at Lowest Prices.

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A Good Idea!

Sell "Prana"

Sparklet Syphons

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London. 1908.

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DO YOU Stock it? It means quick sales and a steady profit if **YOU DO**

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All Registered Chemists can sell Wincarnis with Quinine without a licence. Why not you?

Medical men in your district order it often, and there is a large public demand. [18]

By Special Appointment to the King & Queen of Spain.

COLEMAN & CO., LTD., 21 Wincarnis Works, NORWICH.

YOU CAN DEPEND UPON

THE RELIABLE QUALITY of all **Drugs, Essential Oils, Chemicals, &c.,** supplied by us, and the **Immediate Execution** of all orders with which you might favour us, however large or small.

HORNER & SONS, 24 George Street, Tower Hill, **LONDON.**

PRICES PROTECTED.

Dr. Allinson's Food Preparations.

Food for Babies, Prepared Barley, Brunak, Power, N-F. Cocoa, Biscuits, Soup, Nutbutter (Walnut Blend), Wholemeal, &c.

NOTICE TO THE TRADE.

We issue a list of WHOLESALE HOUSES who keep above in stock; if for *any* reason you have difficulty in obtaining supplies, please send post-card direct to us, and a list will be sent to you by return. See trade mark on all our goods: "T. R. ALLINSON." ***None Genuine Without.***

NATURAL FOOD COMPANY, LIMITED.
305 Cambridge Road, Bethnal Green, LONDON, E.

Handbills, Booklets, Showcards, &c., Free.

N.B.—Our goods are to be sold only at prices stated upon the Price Lists we issue to the trade.

SAL HEPATICA.

PUT UP FOR EXPORT:

Small	size,	3 oz. bottle,	in case.	
Medium	"	7 "	"	"
Large	"	16 "	"	"

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DECORATED & PLAIN TIN BOXES,
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Quotations to samples
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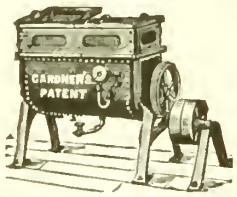
"RAPID" SIFTERS & MIXERS

OVER 3,100 working in Almost Every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust.



FOR HAND OR POWER.
From 55/- to £90.
CATALOGUES FREE.
WM. GARDNER & SONS, Engineers, GLOUCESTER.

VERNON & CO. LTD.
Penwortham Mills, PRESTON,
MANUFACTURERS OF
ABSORBENT LINTS,
COTTON WOOLS,
GAUZE TISSUE,
SANITARY TOWELS, &c.
We spin the yarns from the raw material, weave the cloth, bleach, raise, and finish on our own premises.

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Menley House, 39 Farringdon Road, London, E.C.

are now introducing to the Medical Profession

GLIDINE = = (A pure Vegetable Protein Food). Retailing at **2/9** and **5/-** per tin.

IODOGLIDINE (An organic Compound of Iodine with pure Vegetable Protein.) Retailing at **3/-** per phial of 20 tablets.

LAXOL = = (Castor Oil made palatable). Retailing at **1/1½** per bottle.

Price List will be sent on application.

EXTRACT OF LIQUORICE and MENTHOL PELLETS.

CUSHION SHAPED.

THE ORIGINAL AND THE BEST.

3s. 6d. per lb. Also in Tins at 2/- and 4/- doz.

E. ERNEST JACKSON,

Telegrams: "Jackson Crediton."

Crediton, Devon, & 291 Kingsland Road, London, N.E.

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Offer the Trade the following valuable P.A.T.A. Protected lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the Country.

	Protected Retail Price.	Dozen.
LOSALL'S SALT (well advertised), tins ...	6d. ...	3/6 net.
" " " " ...	1/- ...	7/- "
" " " bottles in cartons	1/6 ...	10/6 "
LOSALL'S MILK FOOD, oblong tins, 1/- size. Ideal Food for children and adults	8½d. ...	5/6 "
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Chemists taking up the above really valuable, large profit-yielding lines, will find them an important adjunct to their business,

London Agents: F. NEWBERY & SONS.

If you want close up-to-date Quotations for superior and approved Counter Specialities, and for Pure Drugs, Chemicals or Pharmaceutical Preparations, don't fail to write to

LOFTHOUSE & SALTMER, *Wholesale Druggists,* HULL.

Add a new source of income to your business by taking up

Laurence's

ONE-SOLUTION

Hair Dye

In nine shades — Raven Black, Black, Dark Brown, Brown, Medium Brown, Light Brown, Golden Brown, Auburn and Chestnut.

THE BEST ON THE MARKET

ABSOLUTELY RELIABLE.

Shows over 100 per cent. profit.

Can be supplied under Chemist's own title if preferred, and exclusive design of carton and label reserved in any one town.

Write at once for particulars to—

C. R. HARKER, STAGG & MORGAN LTD.,

Devon Wharf, Emmott Street,

MILE END, LONDON. E.

An Attractive Window pays.

READ READ

what "THE CHEMIST & DRUGGIST" says:

LAIT LAROLA. — "This little engraving represents one of the smartest arrangements for window-display that we have seen for some time. It is collapsible, measures 20 in. high by 11 in. wide, and although made of cardboard, at a distance of 3 or 4 yards it is so substantial looking as to convey the idea of the original cartons of "Lait Larola." It is just the thing to make an attractive corner in the window, on a shelf, or, indeed, in any part of the pharmacy. Any *C. & D.* subscribers who would like one should write to Messrs. Beetham & Son, Cheltenham, the proprietors of "Lait Larola."

Also Show Cards and Coloured Pictorial Postcards for distribution if desired. All the "Larola" preparations are protected at **FULL FACE VALUE,** and the goods bear a good profit.

Price List with terms sent on application to—

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"May Queen"

POWDERED TOILET SOAP.

DELICATELY PERFUMED.

Packed in Prettily Decorated Sprinklers.

Certified by Dr. A. B. Griffiths of London Public Analyst as the "VERY BEST TOILET SOAP." Antiseptic, Disinfectant & Hygienic.

Write for Sample Tin to HENRY SHAW & Co DUKINFIELD.

TRY IT IN YOUR BATH

BY APPOINTMENT TO H.M. THE KING.

SCRUBB'S AMMONIA

MARVELLOUS PREPARATION

Refreshing as a Turkish Bath.
Splendid Cleansing Preparation for the Hair.
Allays the Irritation caused by Mosquito Bites.
Restores the Colour to Carpets.
Invaluable for Toilet Purposes.
Removes Stains and Grease Spots from Clothing.
Invigorating in Hot Climates.
Cleans Plate and Jewellery.
Softens Hard Water.

Of all Chemists, Etc. Price 1s. per Bottle.

SCRUBB & CO., LTD., GUILDFORD STREET, LONDON, S.E.

Two Good Lines

POTTER & MOORE'S
Mitcham
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NEW STYLE POCKET FLASKS.

Retail 1/1. Wholesale 9/- doz.

BUISSON FRÈRES

(True to Nature)

Carnation Perfume ::

12/-, 18/-, 24/-, & 48/- doz.

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And at NEW YORK, MOSCOW, MELBOURNE, SYDNEY & GRASSE.

To be *"UP-TO-DATE"* you *must* have your **"VASELINE"** packed in the ***Tapered Glass Jars*** with Decorated Dome Caps.

3 sizes—1½, 2, and 4 oz.

Smartest and Best Value in the market.

Sole Packers of this particular line:
SHIRLEY BROTHERS, Ltd.

Prices, &c., on application.
The old-fashioned round jars are "not in it" with this package.

MENTHOL & MENTHOL & EUCALYPTUS SNUFF.

Oak Box.

Both on P.A.T.A. at 3½d.

Plenty of Profit to all concerned.

Tortoiseshell Box.

1 doz., **1/10**; 6 doz., **1/8** doz.; 12 doz., **18/6**; 5-gross lots, **16/6** net.

PINE TREE LOZENGES.

In Blue & Silver Decorated Hinged-lid boxes.

Filled	**3/6** doz.
Empty	**13/-** gross.

BROMPTON HOSPITAL LOZENGES.

In Hinged Tins, White, Black, & Gold, 1 doz., **1/10**; 2 oz., **2/9** doz.; filled. Empty Tins, **8/-** & **10/-** gross.

SHIRLEY BROTHERS, Ltd., Whitecross Works, LONDON, S.E. and MANCHESTER.

JOHN STRANGE WINTER'S

"Since using the Hair Food I have grown into a Persian."

TOILET PREPARATIONS.

They interest and please all customers, and carry high profits.

Five Gold Medals.

Write to-day (quoting this advt.) for New Price List and Special Offer to—

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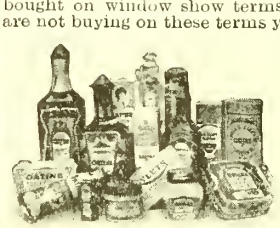
Telephone: 742 Putney.

THE OATINE PREPARATIONS

show the retailer a living profit and much more, and if bought on window show terms make 50 per cent. If you are not buying on these terms you should commence now.



Write to-day for full particulars of our selling terms, or refer to our full-page advertisement in *The Chemist & Druggist*, October 9th, or look out for an announcement which will appear in the issue of November 20th.

THE OATINE CO.
430 Denman Street, S.E.

NEWBRO'S HERPICIDE

The ORIGINAL remedy that kills the dandruff germ.

This wonderful Hair-Saver acts by destroying the germ or microbe that causes dandruff, itching scalp and falling hair, after which the hair resumes its abundant growth and beauty as nature intended. Extraordinary results follow the intelligent use of Herpicide. Sold in all civilised countries.

Newbro's Herpicide is the most exquisite hair dressing in the world. Cooling and comforting. It stops itching of the scalp almost instantly.

Manufactured by THE HERPICIDE COMPANY, Detroit, Michigan, U.S.A.

TRADE SUPPLIED BY

THE AMERICAN DRUG STORES
Wholesale and Retail
C. BROOKS, M.P.S., Chemist and Druggist, 4 Northumberland Av., W.C.; Craven House, Kingsway, W.C.; and 36 Cranbourn St., W.C.

THOMAS CHRISTY & COMPANY
4, 10 & 12 Old Swan Lane, Upper Thames Street, E.C.

PRICES
Retail 4/- per bottle.
Wholesale 33/- per dozen.
In lots of 3 dozen, 5 % discount.

FEET! FEET!! FEET!!!

PEDEZY

(Registered.)
Gives Foot Ease.

A NEW FOOT TONIC. The **ONE AND ONLY** specific for
TENDER—TIRED—FŒTID FEET.
A deodorant liquid giving immediate results. A new and **ORIGINAL** preparation that sells at sight.

Retail Price 1/- per bottle. Liberal Terms. No Cutting. Agents Wanted.

KNIGHT & Co., *Pharmaceutical Chemists,* **20 Wheeler Gate, Nottingham.**

Darter Wilkinson & Co.

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Pleated Paper Bottle Caps.

NO. 4 MACHINE-MADE

Dish & Dessert Papers, &c.

Nos. 0, 1, 2, 3, 10, 20, 30, 3B, for Phials @	**5d.**	per gross
,, 4, 4B, 40 (3 to 6 oz.) ... ... ,,	**7d.**	,,
,, 5, 5B, 50, 5½ (8 to 10 oz.) ... ,,	**8d.**	,,
,, 6, 6B, 60 (Pints) ... ... ,,	**10d.**	,,

23 to 25 Sandland Street, London, W.C.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, DECEMBER 11, 1909

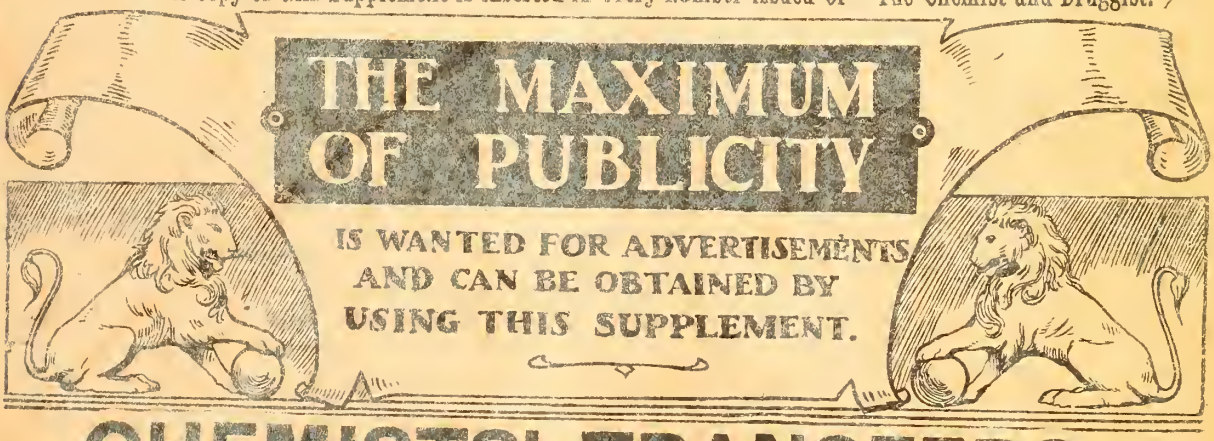
TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers) and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done **PROVIDED the MONEY is TELEGRAPHED** at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules.

Telephone: No. 852 Bank (two lines). Telegraphic Address: "Chemicus London."

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."



CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, E.C.—Position unique; Retail and Dispensing Business, chiefly ready money; returns between £1,500 and £2,000 per annum; profits above the average; further details on application.

2.—FULHAM.—Main thoroughfare; General Retail Business; returns last year £621; *profit (net)* £225 (proof given); attractive shop, fitted in mahogany, ample working stock; moderate rent, price £425.

3.—LONDON, S.E. (good-class suburb).—Ready money Business; Retail, Dispensing, and Photographic; returns, under manager, £1,200, scope for development; *net profit 25 per cent.*; stock and fixtures valued at £850; price, to include lease and goodwill, £900.

4.—LONDON, S.E.—Shopping thoroughfare; old-established Business; Retail, Dispensing, and Photographic; returns (present rate) £1,300; net income £300; several proprietaries are included; price £850.

5.—WARWICKSHIRE.—High-class Business; Retail, Dispensing, Photographic, and Optical; returns £600 per annum; scope for development; roomy house, held on lease; price £350.

6.—DERBYSHIRE.—High-class Business; held by vendor 25 years; *gross receipts average £700*, under management; double-fronted shop, handsomely fitted; commodious residence; early sale desired; valuation terms entertained.

7.—WORCS.—Old-established Business, held by vendor many years, now retiring; returns average between £1,050 and £1,100; *gross profit* £450; double-fronted shop; position unique; large residence, garden, and warehouse; price £700, or valuation if preferred.

8.—SOMERSET (Market Town).—Good-class Business; Retail and Dispensing; returns between £1,000 and £1,100 per annum; *profits above the average*; well-appointed shop, fully stocked, excellent residence, held on lease; price £800.

9.—BUCKS.—Good-class Business (Mixed); established 1804; gross receipts £940; *net profit about* £300; large house, nice garden; rent moderate; long lease; price £700.

10.—WESTERN COUNTY.—High-class Retail and Dispensing Business, capitally situate in the centre of town; returns £1,300 (average); *net profit* £320; handsomely fitted Pharmacy; corner position; large residence; moderate rental; further details on application.

11.—GLOS. (Market Town).—Cash Retail and Prescribing Business; established 1815; returns last year £740; *gross profit 40 per cent.*; several splendid proprietaries are included; roomy house; long lease; price £550.

12.—DEVON (large town).—Established Business; Retail, Prescribing, and Photographic; returns £500 per annum; net income £180; double-fronted shop; corner position; main thoroughfare; price £250.

13.—SURREY (within easy distance of town).—Family Retail, Dispensing, and Prescribing Business; returns last year £600; *net profit about one-third*; price about £450.

14.—HOME COUNTY.—Very old-established Business; Dispensing and Retail, including Wine and Spirit Department; returns between £1,700 and £1,800 per annum; *profit (net)* £371; intending investors with about £1,000 at command will find this a sound investment.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasise the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BRETT & CO.

CHEMISTS' VALUERS AND TRANSFER AGENTS,

Telegrams: "Brett Leicester."] **6 WEST STREET, LEICESTER.** Telephone: 150 Y

VALUATIONS have always had our special and personal attention, and an experience of thirty years is at your disposal **AGENCY.**—We have always a large number of *Buyers* on our books, and we can frequently find a Purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS TO THE ENTIRE DRUG TRADE.

1.—SOUTH COAST.—Fashionable seaside resort; very high-class Retail and Dispensing; fine shop and excellent house; old-established; returns £1,228, and increasing; profitable; price £950.

2.—LONDON, N.—Good-class Cash Retail situate in best shopping thoroughfare; nice shop, double front; splendidly fitted and well stocked; returns nearly £600; good profits; price £300; part can remain; trial allowed.

3.—LIVERPOOL.—Good-class Light Retail and Dispensing in increasing suburb, good shop and excellent house; old-established; returns £1,071 and increasing; very profitable, price £1,000; a real genuine Business and 3 months' introduction given if desired.

4.—LANCS.—In a very busy town; middle and working class Retail, nice shop; new premises; returns £580, rapidly increasing; price, valuation, about £320; low rent, an excellent opportunity.

5.—DERBYSHIRE.—Good Mixed Family and General Retail; good Specialities; unopposed country district; returns over £600 under manager; price £220; can be greatly increased under principal; lock-up shop; rent 6s. week; nicely fitted; a bargain.

6.—DERBY.—Good-class Family, Retail, and Dispensing; lock-up shop, rent £21; established by vendor 11 years; returns £800; net profit £260, valuation £460.

7.—YORKS.—Popular seaside resort, middle-class Mixed, Retail, Dispensing and Photo; good shop and convenient house; old-established; returns £680 and increasing; net profit £200, valuation about £520; a splendid opportunity.

8.—GLAMORGAN.—A very nice little Business, only opened six months ago, but very rapidly increasing; returns at present about £9 per week; no opposition, stock and fixtures about £200; to a young, energetic man this is a chance of a lifetime.

9.—MIDLANDS.—A good steady General Retail in a very busy town; old established, together with a Tobacconist's adjoining; Chemist's returns £15 per week, Tobacco returns £50 per week; excellent premises; price £150 and valuation, about £600 (for the two Businesses); a rare opportunity.

10.—GLOUCESTERSHIRE.—Very nice Retail, Dispensing, and Prescribing in very pretty district; returns nearly £800, and steadily increasing; good profits; good house and shop, price £550; an excellent business.

11.—LONDON, N.—Handsome modern ship in very busy district; returns nearly £700 and good profits; low rent, open to fullest investigation and a trial allowed; valuation of stock and fixtures about £350; a rare chance.

12.—YORKS.—Mixed General Retail in very busy district, returns over £400 and increasing; low rent; price about £200; good chance for a beginner.

13.—LONDON, S.W.—Good-class Retail and Dispensing and excellent Proprietaries; nice house and shop; old established; returns £1,120, net profit £350; price £850.

14.—SOUTH COAST.—Good-class Cash Retail and Dispensing; nicely-fitted shop; great scope for increase; returns £650; good profits; price £350; an excellent business.

STOCKTAKING.

Now is the time. Write us for our special terms. Dates now being booked for 1910.

MESSRS. BERDOE & FISH,

Chemists' Valuers and Transfer Agents,

35 JEWRY STREET, FENCHURCH STREET, CITY.

TELEPHONE: 1809 CENTRAL.

Have the following Businesses for Disposal. (No charge to Purchasers.)

1.—KENT COAST (fashionable town).—Good-class Retail and Dispensing Business in splendid position; returns average £1,150; good profits; handsome shop, fully stocked; excellent house; price £1,000.

2.—SUFFOLK.—Unopposed Light Retail Business, no Mixed or heavy trade; returns average £800; good house; low rent; well-fitted shop, heavily stocked; price £465; a bargain.

3.—SOUTH COAST (fashionable town).—Good-class Retail and Dispensing Business; returns about £650; plenty of scope for increase; gross profit £240; well-fitted shop and good stock; price £350.

4.—HAMPSHIRE.—Light Family Retail Business in good-class growing district; returns nearly £700; no side-lines; plenty of scope; net profit £220; good house and shop; price £440.

5.—DERBYSHIRE.—Unopposed Light Country Retail Business; returns over £600 under manager; plenty of scope; corner shop (lock up), rent only £15; price £200, less than valuation; worth seeing.

6.—MONMOUTHSHIRE.—Good-class Country Retail Business in market town; returns under manager nearly £700; plenty of scope; low rent; exceptionally well stocked; price £450 or offer.

7.—LINCS.—Unopposed Village Retail Business; returns £250 under junior; principal would quickly do double; rent under £20; convenient house; price only £130, simply valuation.

8.—LONDON, WEST.—Good-class Family Retail, Dispensing and Prescribing; in splendid position; returns approach £1,000; price £300 or £100 and valuation.

9.—LONDON S.W.—Light Cash Retail; returns over £650, under manager; good position; price £200, much below valuation.

10.—HERTFORDSHIRE.—Good-class Retail, Dispensing, and Prescribing Business in important market town; returns over £1,500; scope for increase; large shop, elegantly fitted and well stocked; price £950.

11.—HOME COUNTY.—Good-class Retail, Dispensing, and Photographic Business; returns over £850; large house and garden; large, well-fitted shop, heavily stocked; price £525, or valuation.

12.—MIDLANDS.—Profitable Light Retail and Prescribing, in unique position; unopposed; returns over £500, half profit; plenty of scope; low rent; good house; price £300.

13.—LIVERPOOL.—Light Cash Retail Business; well established; returns about £1,000; net profit over £250; handsomely fitted shop, in unique position, fully stocked; price £375, or valuation.

14.—ESSEX (Coast).—Profitable Cash Retail and Prescribing Business in good position; returns about £500, increasing; good house; well fitted and stocked; price £250.

15.—STAFFS.—General Mixed Retail Business in good market town; returns about £500, can easily be doubled; very best position; net profit £200; price £350, or valuation.

16.—DEVON.—Good profitable Retail and Prescribing, with Dispensing; in splendid position; returns £500; net profit £190; fine corner shop and good house; price, valuation, about £250.

17.—LONDON, S.E.—High-class Suburban Retail; returns £950; stock and fixtures worth £700; price £800; strongly recommended.

18.—STREATHAM.—Light Family Retail; returns £680; net profit £200; good house and garden; valuation required, about £300.

STOCKTAKING.

We are now booking Stocktakings for 1910, and shall be pleased to forward our special terms on application. We value the stock in full detail without disturbing the routine of the business in the slightest degree; in fact, when we finish you do not know we have been. Interviews arranged. Correspondence cordially invited.

PARSON C. BAKER

174 VICTORIA ST., LONDON, S.W.

Recommended by—MESSRS. BARRON, HARVEYS & CO
MESSRS. MEGGESON & CO.
MESSRS. BAROLAY & SON, LTD.

Telephone: No. 27 Victoria.

LONDON.—Nearly unopposed Retail; Hackney; desirable Business, well fitted, fully stocked; proprietor must sell immediately; will accept £250; nice shop; good house; rent £40.

CENTRAL position; good business town, South Coast; old-established, prosperous Business, lately very neglected, now returning only £500, new, up-to-date window; good shop; large house; rent £66; can let off half as offices; vendor having other engagements will sell for less than value of stock and fixtures.

LONDON, S.E.—Old-established Business in good thoroughfare; doing increasing trade; Light Retail, etc.; returns £900, large house and nice garden; rent £60, lease; shop well fitted and fully stocked; price £530, or valuation of stock and fixtures.

LONDON, S.W.—Genuine Family Dispensing and Retail; good shop; large house, £30 let off; returns about £650; good prices; net profit £240; price £425.

VALUATIONS (without inconvenience to trade) at moderate prices. Quotations free. Inquiry invited.

FREDK. WM. SMITH

LICENSED CHEMISTS' VALUER.

Valuations for transfer of business, Probate, &c. Businesses for disposal. Stocks and Fixtures purchased to any amount for cash. Stocktakings undertaken. A Register kept of Assistants and Chemists requiring Assistants; no charge made

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TELEPHONE 02949.

TOMTOM

Telegraphic Address.

THOS. TOMLINSON & SON,

Chemists' Valuers and Expert Stocktakers,

Businesses transferred privately.

29 NEW CANNON STREET, MANCHESTER.

BUSINESSES FOR DISPOSAL.

3s. 6d. for **50** *words or less; 6d. for every 10 words beyond, prepaid.*

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

COLONIAL BUSINESSES.

We call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touch with likely buyers either at home or in the Colonies.

Replies to Advertisements may be addressed to this office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

CITY OF LONDON.—To ensure quick Sale will accept low price for Retail and Dispensing Business in main thoroughfare; genuine and increasing; handsomely fitted; moderate rent; worth attention. "Salol" (82/14), Office of this Paper.

DOVER.—Good-class Wholesale Chemical and Cattle-medicine Business, also Perfumery; established 50 years; rent £60; in main thoroughfare, modern house; handsome shop; up-to-date fittings, rare opportunity for energetic, qualified man; stock and fixtures by valuation. Particulars, A. White, Estate Agent and Valuer, Dover.

ESSEX.—In one of the most rapidly-rising suburbs; grand position for increase; opened 4 years; returns last year over £700 and still increasing; good profitable Cash trade; fine opening for Dentistry; long lease; moderate rent; modern fittings and well-stocked excellent house; an exceptional opportunity for up-to-date man; must be sold; price near £500. 82/15, Office of this Paper.

HANTS (Watering-place).—Good-class Business, with scope for large increase, especially in Photographic goods; well fitted and stocked; good opening for up-to-date man with small capital; vendor retiring; references. 78/12, Office of this Paper.

HOME County Chemist's Business for Sale; £80, or nearest offer; must be disposed of on account of ill-health. 82/7, Office of this Paper.

LONDON, W.—Light Retail Dispensing, and Prescribing Business; in present hands 11 years; returns £12 to £13 weekly; net profit £225; books properly kept; good house, with garden; price £425, which is barely value of stock and fixtures. Address, "T. H. C." (82/19), Office of this Paper.

LONDON, N.—For Disposal, small Chemist's Business: quarter mile from nearest Chemist's shop; populous neighbourhood; returns increasing; opening for Tooth Extraction and Photography. Apply, 79/21, Office of this Paper.

MIDLANDS.—Profitable Light Retail and Photographic, returning £500; best position in good manufacturing town; low rent; good house; no limited company opposition; several valuable Proprietaries; good reason for disposal; valuation only required; no agents. Apply, "Salicylas" (79/3), Office of this Paper.

SOUTH COAST.—Must be sold, owner going abroad; good-class Family Retail and Dispensing Business on Cash lines; present returns £650, rapidly increasing; could be doubled by smart up-to-date man; price £350 (value stock and fittings). Apply, 78/11, Office of this Paper.

LARGE town on South Coast; Light Retail and Prescribing Cash Business; good shop with complete stock; long lease; returns £350; to effect quick sale price £110 or offer. Apply, 77/39, Office of this Paper.

JUST what real live Chemist with £100, determined to force success, requires; unopposed position; second to none anywhere; busy centre; established marketing thoroughfare, N.W.; dense population; considerable proportion first-class; vendor's (70) retirement imperative; or working Partner entertained; minimum income guaranteed; profits shared; sole charge; inquiries from Dentists invited. 77/35, Office of this Paper.

MUST BE SOLD.—Light Retail Shipping and Prescribing Business in a South Coast town; returns about £420; very profitable; scope for increase; good house. Apply, "Acetyl" (20/34), Office of this Paper.

OWNER, through ill-health, is reluctantly compelled to Dispose of genuine Retail, Dispensing, and Photographic Business; main road; shop double fronted, mahogany fitted; net profit £225, proved by books, systematically kept; stock and fixtures worth £400; reasonable cash offer entertained; single man could borrow all capital and repay in 4 years. 78/23, Office of this Paper.

WHOLESALE firm have for Disposal Retail Business in populous Midland town; no Pharmacist near; no unsaleable stock; modern shop with good house; sales mostly Drugs and own Proprietaries; exceptional opportunity for energetic man with limited capital; mutual valuation, £50 cash and balance by easy instalments. 78/18, Office of this Paper.

£50; must be sold; proprietor going abroad; takings on an average £6 a week under unqualified hands; established nearly 6 years; well stocked; no Patents; plenty of Prescribing; thickly populated neighbourhood. Apply, 96 Kingsland Road, St. Philip's, Bristol.

£130; Somerset; a Light Retail (Cash) and Prescribing Business; very few Patents and good profits; position central; populous locality; easily worked; good house. Particulars to "Statim" (78/302), Office of this Paper.

BUSINESSES WANTED.

CHEMIST and Druggist Business required as a going concern; Manchester district; principals only. Address Box 254, General Post Office, Manchester.

PHARMACIST wishes to invest about £750 in sound Business, either purchase or as working Partner in large concern; 22 years' good experience; last 8 years successful proprietor; qualified Optician; references to leading Wholesale houses; type of business immaterial, but must yield good income. 73/13, Office of this Paper.

SMALL Mixed Drug Store; London preferred; living profit for advertiser; assistant must be proved or no purchase; cash ready £50, remainder (if any) by instalments; please give weekly returns and profits, all other particulars in first letter; strictest privacy given and expected. Address, in confidence, 81/26, Office of this Paper.

WANTED, to take over a small Business early in January; neglected one not objected to; good windows; cash ready £150, remainder by instalments; London preferred, but not essential; please state returns and net profit before interview. Address, "Pharmacist" (79/8), Office of this Paper.

WANTED to Purchase a Business in the South or in a market town, with scope for increase; doing sufficient business at present to keep an assistant. Apply, giving particulars in confidence, to "B." c/o Bradsham, Sunnyside, Kenilworth.

SALES BY AUCTION.

BY ORDER OF MESSRS. E. BENTLY & SON,
8-10 BATH STREET, CITY ROAD, LONDON, E.C.

The extensive stock of DRUGGISTS' SUNDRIESMEN, including 500 gross Medicine and Perfumery Bottles, 20 gross Cut and Plain Perfume Sprays, Handmade rounds, stoppered in boxwood cases, Measuring Glasses from 1 dram to 40 oz., stoppered green Medicine-chest Squares, Chemists' Window-carboys, Show Jars and Bottles, Earthenware cream pots, China Feeding, Shaving, and Spitting Mugs, Celluloid, Opal, and Delft Ointment-pots, capped Feeding Bottles Specimen Bottles, Boxwood-top Corks, Dropping Bottles, Poison and Photographic ditto Cut Smelling Bottles, Photo Scales, Trusses, Pestle and Mortars, Puff Boxes, Combs, and a large quantity of Chemists' and Druggists' Sundries and Fancy Goods, together with the well-made SHOWROOM WAREHOUSE, and OFFICE FITTINGS, Mahogany, Walnut, and Ebonised Air-tight Wall Show-cases, Upright Centre Show-case, fitted Plate-glass Shelves Counter-cases, 5-ft. 6-in. Bent Plate-glass Centre Case, Ranges of Wall Fittings, Shelves, Panelled Front Counters, Nests of Drawers, Exhibition Show-stands, Mahogany Slope Desks, Tables, Chairs, Dials, 500 empty Cases, large quantity of Ointment and other Jars Stoppers, Lids, etc.

MR. FRANK G. BOWEN will SELL BY AUCTION, on the premises as above, on WEDNESDAY, December 15, at 1.

On view day prior

Catalogues of Messrs. Lumley & Lumley, Solicitors 15 Old Jewry Chambers, E.C.; Messrs. Trayton P. Child & Sons Chartered Accountants, 8 Frederick's Place, Old Jewry, E.C., and of the Auctioneer, 54A Aldersgate Street, London, E.C.

TO LET.

AN exceptional opportunity occurs to Chemists and Druggists of securing Shop and upper part in established thoroughfare, where this business is not represented; N.W. district; rent £60 per annum on lease. Apply, Ernest Owers, Golders Green, N.W. or at Finchley Road and West Hampstead

SHOP to Let, on agreement or lease, £50 per annum, situated in main road of populous suburb; electric light; opposite commodious dwelling above; very suitable for Chemist with good stock. Apply Godfrey & Godfrey, 4 and 5 West Smithfield, E.C.

FOR SALE.

COMPLETE Chemist's Fixtures in mahogany, window 1-ft. enclosure, 3 angle mirrors, 42 by 22, 9 plate glass shelves, wall-case, 9 ft. by 6½ mirror centre and smaller; 3 ft counter, glass fronted and 2 ft bent glass ends; 36-ft. (about) wall fittings, cupboards, etc.; 6-ft dispensing counter (by Mills); 8½; offers £75 10s. Jones & Co. Chemists, Windsor Street Brighton

MUST be Sold before Wednesday the entire contents of a Chemist's Shop owner leaving England; what offers? 81,'27 Office of this Paper

AGENCIES.

SOUTH AFRICA.—Gentleman, with energy, capability, and knowledge of the country, representing a well-known Drug-gists' Sundries firm and residing in Johannesburg, desires one or two good Agencies on small salary and commission German correspondence also invited. Address in first place, "A. B.," c/o F. Schulze & Co. Black Bull Works, Caledonian Market, London, N.

A CHEMIST having a good business and connection among Medical men desires to act as English Agent for a German Pharmaceutical house. Address, "X. Y. Z." (81,30), Office of this Paper

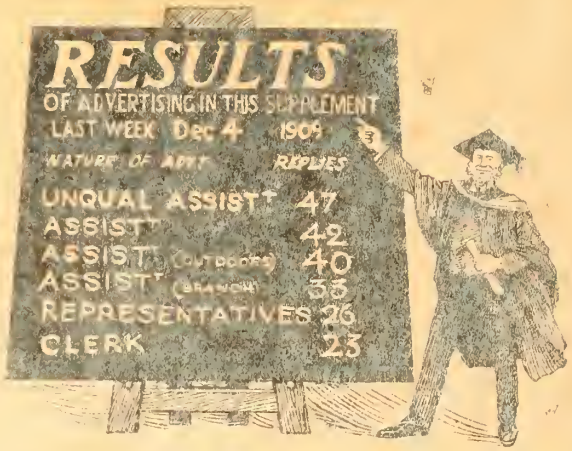
MANUFACTURERS of Drugs, Soaps, Sundries or Specialities who wish to be Represented in London to the Wholesale Shipping and Retail trades should write to advertisers, who have commodious offices in Coleman Street; samples can be displayed and introduced by experienced salesman; Sole Agencies desired. Apply, "Galen" 176 Wood Exchange, London.

PARTNERSHIPS.

GENTLEMAN, good business man, Chemist or Perfumer preferred to take an active part in an old-established Wholesale and Manufacturing business; capital required £2,000. Principals or their solicitors address, "Z. B. 704," c/o Messrs. Deacon's, Leadenhall Street, E.C

WHOLESALE.—An exceptional opportunity of entering one of the best-established high-class houses in the trade; capital required not less than £5,000; preference given to an efficient, energetic, qualified gentleman, not more than 35 years of age. Apply, in first instance, by letter, with full particulars and experience, to "H.," c/o J. H. Smith, Solicitor, 20 Finsbury Square, E.C.

SITUATIONS OPEN.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of advertisers who use a number or nom de plume.

RETAIL.

Representatives calling on Chemists, high-class Grocers, &c., able to influence business with a seasonable article, well established and showing retailer living profit, and unique value to consumer, should write us. LIBERAL SALARY AND COMMISSION PAID TO THE RIGHT MEN. Enclose full particulars of ground covered, references, &c. 2/17 Office of this Paper.

BAKEWELL. Qualified Assistant wanted; outdoors; no Sunday duty; close 2 o'clock Thursdays. Please state age, height, salary required, outdoors, and references to E. G. Carrington, Chemist, Bakewell.

BIRMINGHAM.—Qualified Assistant for good Retail, Prescribing, and Dispensing business, with Photography, in suburb; age not exceeding 28; an abstainer and quick at Counter; weekly half-day from 1, alternate Sunday duty 9 to 1. Please state salary (inside or outdoors), and enclose photograph, to "Pharmacist," c/o Southall Bros. & Barclay Wholesale Chemists, Lower Priory, Birmingham

BRIGHTON.—Junior (outdoors), age about 20, for modern Cash business; must be energetic and industrious. half-day off weekly. Apply stating age, height, salary required, experience, also reference with photo (if possible), to F. W. Burgess, 138 Preston Drove, Brighton.

BROMLEY.—Reliable Assistant, age about 24, for good-class Dispensing business; one hour off daily and half-day weekly. State particulars, including salary (no Sunday duty), to Davenport, Chemist, Bromley, Kent.

CALCUTTA.—Minor man wanted for old-established house in Calcutta; 4 years' agreement; passage paid out and home; applicant must be single, under 25, and have first-class references. Apply, with particulars of experience, to 81,'24, Office of this Paper.

CAMBERLEY, Surrey.—A reliable Assistant required (indoors), for a good-class Family business; age 24-25 Dispensing and Photographic experience essential. Particulars and references to Ralph J. Evans, Chemist Camberley.

DEWSBURY.—Junior Assistant wanted; good knowledge of Mixed business; state age, experience, whether qualified or unqualified, also salary and when at liberty. Apply to John Day, Pharmacist, Savile Town, Dewsbury.

JAPAN.—Qualified Assistant; age 23 to 26; one with knowledge of French or German preferred; passage, second class, paid out and home; 5 years' agreement. Apply, with photo and copies of testimonials, to "R. L.," c/o S. Maw, Son & Sons, 7 to 12 Aldersgate Street, E.C.

LIVERPOOL.—Qualified and unqualified Assistant wanted, immediately. Apply, stating age, salary required, and references, etc., to "Alpha," c/o Evans Sons & Co., Hanover Street, Liverpool.

LONDON, S.W.—Wanted, early in January, qualified Senior Assistant as Finisher-off in a high-class Dispensing business; age about 25 years; must have had good experience; outdoors. Apply, "A. C.," Cooper, Son & Co., Ltd., 80 Gloucester Road, South Kensington, London, S.W.

LONDON, S.W.—Wanted, immediately after Christmas, capable Junior; preference given to good Dispenser. Salesman and Window-dresser; hours moderate; half-day off weekly. Apply personally, if possible, otherwise send photo. with usual particulars, to J. Timmis, 290 Clapham Road.

LONDON, W.—Junior Assistant; about 20; indoors; 2 employed; good-class Dispensing business; December 28. Usual particulars to Harding, Pharmacist, The Avenue, West Ealing.

LONDON, W.—Wanted, by December 20, Manager for Store business. Optical experience an advantage; outdoors; hours 9 to 9.30, alternate Sunday duty 7 to 9, half-day weekly; interest in business to really good man. Bruce's, Ltd., 28 Broadway, Ealing, W.

LONDON, W. Qualified Junior wanted after Christmas; age about 25; personal application only. Smith & Co., 108 Mount Street, Grosvenor Square, W.

LONDON, E.—Temporary qualified Manager for small business; Prescriber and Extractor, enclose photo. if possible, and state salary required. Apply, 82/24, Office of this Paper.

LONDON, S.W.—Improver wanted (indoors). Apply, stating age, experience, and salary required to Feltwell & Son, Church Road, Barnes, S.W.

PARIS.—Qualified Assistant; age about 25; Continental experience; knowledge of French indispensable. Address, "Serum" (267/5), Office of this Paper.

PLUMSTEAD, S.E.—Qualified Manager, immediately after Christmas, outdoors; must be good practical Photographer and understand the Photographic trade; also smart JUNIOR (outdoors), for Dispensing and Photographic business. Apply, A. Goldthorpe, M.P.S., 70 Herbert Road, Plumstead, S.E.

STRAITS SETTLEMENTS.—Wanted, a qualified Manager; age 24 to 30; single; second-class passage paid by mail steamer; 3 years' agreement, salary 150 dollars per month first year, 175 dollars per month second year, 200 dollars per month third year, plus 5 per cent. commission per annum on net profits. For full particulars apply to Assistant, Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

WEST END.—Assistants required: Senior and Junior; Minor qualification; indoors. Full particulars, stating age, height, previous experience, and salary required, to "Alpha," c/o Messrs. Sangers & Son, 258 Euston Road, N.W.

WESTON-SUPER MARE.—Wanted, January 1, a capable Assistant; indoors; well up in Dispensing and accustomed to quick Light Counter trade. Apply, with photo if possible, and all necessary particulars, to Joseph Hicks, Chemist, Weston-super-Mare.

A REALLY smart, up-to-date business man can hear of a good appointment as Manager in a London business by sending full particulars to 82/4, Office of this Paper. Unless full particulars are given applications will not be answered.

ADVERTISER would be pleased to hear from a retired Chemist who is a qualified Dentist, with reference to taking Locum work two or three days a week in Liverpool. Address, H. Hudson, 54 Victoria Road, Headingley, Leeds.

CHIEF DISPENSER required for the Public Hospital, Georgetown, British Guiana. Engagement in the first instance on agreement for two years, at the end of which period appointment may be made permanent and pensionable.

Salary £250 a year, rising to £300 by annual increments of £15, with house allowance of £50 a year.

Free passage out and home again if engagement is satisfactorily terminated after two years' service. Half salary on voyage out; full salary from date of arrival in the Colony.

Strict medical examination; vaccination if considered necessary. Should be under 30 years of age and preferably unmarried. Must be qualified to practise as a Chemist and Druggist in Great Britain, be a member of the Pharmaceutical Society of Great Britain, and have had at least three years' practical experience since obtaining his qualification. Should have a practical knowledge of Drugs and the Drug Trade, and have had some experience in a large Hospital. Will have charge of the Dispensing Department of the Hospital, and, in addition to the usual duties of the appointment, will be required to assist in training the dispensary students attached to the Dispensary by giving lectures and practical instructions.

Application by letter (no special form required), stating age, whether married or single, giving full particulars of experience, accompanied by copies of testimonials (not originals), with names and addresses of referees of whom inquiries can be made as to capabilities and character, will be received by the Crown Agents for the Colonies, 4 Whitehall Gardens, London, S.W., up to the 20th December. Quote M. 5939 on left-hand top corner of application.

This advertisement contains all the information available concerning the appointment.

ASSISTANT.—Required, a Female Assistant with Apothecaries' Hall qualification; applicants will please state age, height, salary required, previous experience, when disengaged, and enclose photograph, which will be returned; the age preferred between 22 and 25. Address, "D. A." (7/304), Office of this Paper.

IMMEDIATELY.—Qualified Managing Assistant; indoors; good Prescriber and Extractor, must know Photography and have undeniable references; comfortable berth for good man; personal application preferred. Apply, Johnson & Co., 275 High Street, Lewisham, S.E.

JUNIOR Assistant in country town; about 20; give full particulars in first letter; applications unanswered in three days not entertained. Bell, Mansfield, Notts.

MALE qualified Dispenser wanted, after Christmas, for Medical Mission East London; Monday, Wednesday, and Saturday mornings, 9 to 1, or later; required to teach students; salary £50 per annum; Christian abstainer. Apply, by letter, Principal, Livingstone College, Leytonstone, E.

MESSRS. DOLBEAR & GOODALL (late Hitchcock & Co.), 108 High Street, Oxford, require a qualified Assistant; indoors; age about 25.

QUALIFIED Assistant for Mixed business (indoors), but away from shop. Merry & Parker, Ilkeston.

WANTED, a Manager; must be total abstainer and have good references. Apply, stating salary required (outdoors), to 81/38, Office of this Paper.

WANTED, at once a qualified Branch Manager; must have first-class Store experience and whose character will bear the strictest investigation. Apply, stating full particulars, including positions occupied for the last 6 years, salary required, and enclosing a recent photo, to 79/19, Office of this Paper.

WANTED, smart Assistant, unqualified, for quick Store trade. Wands, Ltd., 12 Haymarket, Leicester.

WANTED (immediately), gentlemanly Junior Assistant; outdoors; good stockkeeper and counterman; easy hours. Apply, with usual particulars, to Allen & Lloyd, Aldershot.

WANTED, a qualified Chemist, with a good knowledge of Prescribing; hours of business light; salary £3 a week (outdoors). Apply with references and stating experience, R. Sumner & Co., Ltd., 501 Lord Street, Liverpool.

WANTED, by Doctor in Yorkshire, a qualified lady Dispenser; she should be domesticated and willing to give assistance in light household duties, salary £2 per month; no laundry. Apply (enclosing photo and references) to "Medicus" (6/6), Office of this Paper.

WHOLESALE.

LONDON Wholesale Druggists require a Representative, early in January, for South Wales and West of England; must have been on this ground for the last 3 years and possess an up-to-date knowledge of Packed Goods. Apply, "Scope" (78/35), Office of this Paper.

A FIRM of Manufacturers have a vacancy for Chemist, thoroughly conversant with the manufacture of Malt Extract and combinations, Medical preparations, Pharmaceutics, Emulsions, Syrups, and Flavouring Essences. Write, giving all particulars as to age, experience, and salary required, to 5/26, Office of this Paper.

BUYER for Chemists' Sundries wanted immediately; good opportunity for intelligent young man with practical knowledge. Apply, with details of experience and salary required, to "I. B. C.," c/o Reid's Advertising Offices, 17 Basinghall Street, London.

DRUG Traveller.—Wanted, a gentleman to Represent an old-established Drug-house; one who has had some experience in a similar capacity preferred. Apply, stating age, experience, references, and salary required, with photograph if possible, to "Drugs" (7/6), Office of this Paper.

FOREMAN, with several years' practical experience in Chemical Factory and knowledge of machinery, especially Tablet machinery, required for January next; applicant must not be under 25 years of age, energetic, and capable of controlling 10 workmen. Apply, with fullest particulars as to age, experience, and salary required, to 81/33, Office of this Paper.

QUALIFIED Chemist wanted for a Department in a Wholesale Druggists'. Apply, stating age, salary required, previous experience, if any, 4/70, Office of this Paper.

REPRESENTATIVE required by London Sundries house for South Wales and Southern Counties; must have experience and thorough knowledge of the trade. Reply, stating fully, experience and ground previously worked, 79/33, Office of this Paper.

TRAVELLER wanted by Manufacturer of Food and Pharmaceutical Preparations to call upon Chemists and Doctors; one with experience and Chemist preferred. Apply, giving full particulars, to 77/11, Office of this Paper.

SITUATIONS OPEN—*cont.*

WANTED, by old-established Essence house, a smart young, up-to-date Representative for South of England to call upon Aerated-water Makers and Confectioners. State usual particulars. 79/14, Office of this Paper.

YOUNG Pharmacist required in Advertising Department of Wholesale firm; previous experience not essential; state age, previous experience, if any, and salary. Address, "L. P." (7/34), Office of this Paper.

APPRENTICESHIPS.

WANTED, a gentlemanly youth as Apprentice (outdoors) in Dispensing business in the West End of London; excellent opportunity for a smart youth; time for study. 7/57 Office of this Paper.

SITUATIONS WANTED

(Colonial, Indian, and Foreign).

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. Replies addressed to this office will be forwarded to the advertiser for an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad

SOUTH AFRICA.—Situation in busy town. Progressive pedigree required; qualified, 27; Retail; first-class experience; Photography, Optics; references. 61/31, Office of this Paper.

WANTED, situation abroad, age 32; good experience, London and country. 78/9, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL.

PART TIME; experienced; competent man; highly recommended; 3 days weekly to dispose of; good Dispenser, Prescriber, Salesman; City or suburban. Forster, Coleridge Road, Finsbury Park, N.

SURGEONS' Dispenser and Book-keeper; age 29. Kemp, 44 Astley Road, Hemel Hempstead.

UNQUALIFIED; outdoors, tall, good references. "V.," 11 Upper Kennington Lane, S.E.

DISENGAGED; unqualified; several years' experience. R. M. Lelean, 2 Rockville, Hautville, Guernsey.

JUNIOR; unqualified; 6½ years' first-class experience; 23, tall; abstainer, disengaged. 82/31, Office of this Paper.

ASSISTANT, Locum, Manager; capable. Sine diploma; 40; disengaged. "Anthrasol," 10 Alfred Road, Stratford.

JUNIOR, 4 years' experience, desires engagement immediately. "W. J. W.," 39 Irene Road, Parsons Green, London.

PERMANENCY or Temporary; unqualified, 32, experienced; abstainer. Kellard, 45 Whiskin Street, Clerkenwell, E.C.

QUALIFIED; 34; Manager or Senior; or with view to succession; single; disengaged. Apply, 82/33, Office of this Paper.

MANAGER; tall; 36; best experience; married; permanency; disengaged. "Pharmacist," Kendall, Myton-on-Swale, York.

MANAGER, Locum, or Relief; reliable, competent; excellent references. "Pharmacist," 33 Foskett Road, Hurlingham, S.W.

ASSISTANT; unqualified; 27; tall; Dispensing, Counter, Photographics, Window-dressing, and Stockkeeper; experienced, references, disengaged. Ellis, 54 Park Avenue, Mitcham.

OUTDOORS; disengaged, good working Assistant; 48; single; unqualified; thoroughly experienced; Branch, temporary or permanency; excellent references; abstainer. "Energetic," 5 Beaconsfield Cottages, Hillingdon, Middlesex.

COMPETENT, gentlemanly Assistant desires engagement early January; experienced; thorough knowledge Dispensing and Counter work; trustworthy, reliable; highest references; outdoors. "Sine dip." "Capable," 4 Seymour Street, N.W.

J. G. WALLBRIDGE, F.S.M.C., Chemist and Optician (late of St. Helens), is open to accept a position of trust where his ability and experience can be utilised to mutual advantage; over 10 years' experience in Refraction work; conversant with every branch of Pharmacy and Photography; well known to representatives of Wholesalers covering Northern Counties. 9 Gorton Road, Liverpool.

LOCUM; days, weeks, or part-time; reliable. Robeson, 15 Inchinnery Road, Catford.

JUNIOR; 19, 4 years' good experience; energetic, trustworthy. George Davidson Thrapston, Northants.

QUALIFIED; 22; good Dispensing and Counter experience. E. Staley, Station Street, Burton-on-Trent.

JUNIOR; 21; disengaged December 31; good all round experience. Wellington, c/o Wise, Chemist, St. Neots, Hunts.

ASSISTANT (outdoors); Locum (either); disengaged, qualified; 36. "Aspirin," 47 St. Mary's Terrace, Hastings.

"XMAS"; Locum assistance; stock taken; terms moderate; references. "A.," 41 Palmerston Road, Birmingham.

24; Surgeons' Dispenser and Book-keeper; experienced; disengaged. Wilson, Tindale Crescent, Bishop Auckland.

COLLEGE-TRAINED Dispensing Assistant; usual counter experience; age 24. Evans, 40 Forster Street, Smethwick.

A WHOLE or part-time berth wanted, excellent references; age 23, permanency. A. W. Eaton, Grand Parade, Highgate.

25; qualified; good experience; Dispensing, Photography; abstainer; disengaged. P. Wesley, 4 South Parade, Penzance.

26; permanency desired in country business, disengaged February or by arrangement. "Qualified" (77/6) Office of this Paper.

HALF qualification, age 46; 26; abstainer; energetic; good experience; salary second consideration. "Vera," 164 Powis Street, Woolwich.

SHORT hours or time to attend classes in London, 27; good Dispensing experience, Photography. Mellor, 55 Bohemia Road, St. Leonards-on-Sea.

UNQUALIFIED; 22; good Counterman; accurate Dispenser, Photography, part or whole time, in Brighton. "Assistant," 8 Old Steine, Brighton.

24; unqualified; all-round experience, including, Stores, Dispensing, Photography; abstainer; disengaged; outdoors. 74/6, Office of this Paper.

MANAGER or Assistant; qualified; 26; good all-round experience; excellent references; outdoors. "Yorkshireman" (78/24), Office of this Paper.

DAY, Locum, or permanency; unparalleled, experienced; tall; good appearance; steady, energetic; excellent references. "W.," 5 Prince of Wales Road, N.W.

PHARMACEUTICAL Chemist (52), active, abstainer, Continental experience, as Manager or temporarily, Locum. Edwards, 37 Hartland Road, Kilburn, N.W.

ASSISTANT, Senior or Dispenser; 28, thoroughly experienced; good address; London and provinces; outdoors. "J. W. R.," 12 Merton Avenue, Chiswick, W.

PART-TIME (first hours); Young man, 35, qualified, thorough all-round experience; good references. "Pharmacist," 8 Altenburg Gardens, Clapham Common, S.W.

MANAGER, Locum, Relief, qualified, exceptionally good experience; disengaged, good references. "Aristol," 102 Brixton Mansions, Brixton Hill, S.W.

ASSISTANT; unqualified; 27; tall; used to Light Retail Dispensing and Photographic; window-dressing; good references. Hill, 18 Rectory Road, Sutton Coldfield.

DEVON or near preferred; Junior; 25; exceptional experience; good Dispenser; outdoors; references, after Christmas. Particulars to Bear, Coach Lane, Redruth, Cornwall.

GERMAN, 23, Druggist, 5 years' practice, able to do all work; knowledge of English, seeks position; Retail or Wholesale. G. Seifert, 77 Ella Road, Crouch Hill, London, N.

MANAGER; 32; married; first-class South-coast experience; disengaged middle January; three and a-quarter years present situation; excellent references. "Chemist," Ruddington, Nottingham.

CHEMIST disposed of business, desires responsible berth any position where ability, energy, and tact are appreciated; highest references; salary by arrangement. Bruce, 270 High Street, Lincoln.

JUNIOR (23), 7 years' experience, abstainer, seeks situation with time for study; in- or outdoors; Devon or near preferred; good Counterman, Dispenser and Extractor. Dudley, 15 May Terrace, Plymouth.

UNQUALIFIED; 30; disengaged; temporary or permanent; experienced Dispenser, Photographer; London District preferred; outdoors; good references. Stansfield, 24 Laurel Grove, Southport.

AS ASSISTANT; gentleman; 26; tall, smart; speaks French, German, and fair English; Continental experience; knowledge of Photographic; good window-dresser; excellent references. 72/20, Office of this Paper.

QUALIFIED; Branch Manager or Senior; excellent references; height 5 ft. 10½ in.; age 34; first-class experience in Retail and Dispensing; disengaged; outdoor engagement preferred; married; suburbs or Southern Counties. 81/31, Office of this Paper.

MANAGER or Senior middle-aged; sound experience. "Chemist," 24 Salisbury Road, Leyton.

JUNIOR: 21; tall; disengaged: Photography. Goulden, 22 Pratt Street, Lambeth Road, S.E.

JUNIOR or Assistant; tall; good references. "Rhei," c/o Owen, Draper, Pontygwaith, Glam.

MANAGER or Senior; qualified; 32, good experience. Bach, 53 Marsham Street, Maidstone.

ASSISTANT: 22; varied experience; smart Salesman. "Hector," 271 Camberwell New Road, S.E.

NURSE-DISPENSER; Hall certificate; Doctor or Institution. Apply, 81/21, Office of this Paper.

QUALIFIED; 24; general experience; reasonable hours "Pharmacist," 19 Tasker Street, Walsall.

TEMPORARY, Locum; days, weeks, qualified, 32; disengaged. "Minor," 90 Fleet Road, Hampstead.

UNQUALIFIED; 18 years' good London experience. "Chemicus," 39 Beauville Road, Clapham Park, S.W.

AFTER Christmas; mornings, afternoons, daily; Hall qualification. Hall, 55 Lady Margaret Road, N.W.

TEMPORARY engagement over Christmas; whole or part-time; experienced. "Jalap," 129 Shirland Road.

DISENGAGED; unqualified; 38; 16 years London Stores experience. Fletcher, Black Horse Yard, Whitby.

MANAGER or Locum; reliable; competent; excellent experience; highly recommended. 78/101, Office of this Paper.

MANAGER; permanency or Locum; middle-aged; qualified, Store experience. "M. H.," 10 Raby Street, Darlington.

DISENGAGED; tall, energetic; unqualified; outdoors; middle-aged. "Radix," 97 Charteris Road, Tollington Park, N.

ASSISTANT, middle-aged; outdoors; experienced; temporary or permanent, unqualified. "B.," 91 Goldsmith Street, Nottingham.

UNQUALIFIED; 23; first-class Dispensing experience; shortly disengaged F. Williams, Roslin, Elgin Road, Wallington, Surrey.

MANAGER, Senior, Locum; 39; Major; experienced; disengaged; good references. "T.," 15 Cicely Road, Hanover Park, Peckham, S.E.

ASSISTANT (age 22) seeks engagement in London in high-class business for Dispensing and Photography. "C.," 11 Mayfield Place, Eastbourne.

UNQUALIFIED Assistant; 32; single; outdoors; experienced in all branches; disengaged New Year; Midlands preferred. 77/30, Office of this Paper.

MANAGER or Locum; qualified; tall; thoroughly experienced; undeniable references; disengaged. Franklin, "Kingsclere," Ansley Road, Alton, Hants.

ASSISTANT or Manager; qualified; 36; married; quick middle-class business; Photography as Locum 45s. and fares. "Chemist," 329 Wednesbury Road, Walsall.

UNQUALIFIED, 38; Manager or Assistant; married; Prescriber and Dispenser; disengaged Christmas through sale of business. Williams, 24 Caldmore Green, Walsall.

ASSISTANT; 36; competent, trustworthy, experienced Dispenser; General Retail; good salesman; unqualified. "Statim," 51 Estate Buildings, Railway Street, Huddersfield.

MANAGER or Assistant with view to purchase; 34; small Drug-store or country business, on mutual terms; good general experience. "Rhei" (78/32), Office of this Paper.

MANAGER or Assistant; 30; tall; Major; good Counterman, Dispenser, and knowledge of Photography; highest credentials; disengaged. Oliver, The Square, Holsworthy.

DISENGAGED; unqualified; 35; outdoors; Dispenser, Counterman, Photography, Window-dresser; last engagement nearly six years. "H. P.," 20 Acton Lane, Harlesden, N.W.

QUALIFIED; Manager or Senior; married; good references; exceptional experience in high-class Family Retail; knowledge of Photography. "Promptly," 9 Rotunda Terrace, Cheltenham.

ANALYTICAL Chemist, out of touch with Pharmaceutical side for some years (has served apprenticeship), desires situation with Pharmacist. "X.," 66 Frostom's Road, Workington, Cumberland.

PHARMACIST, young and energetic, good Dispensing and Photographic experience, Window-dresser, requires situation in Liverpool or neighbourhood, January. "Eosin," 292 Smithdown Road, Liverpool.

UNQUALIFIED; 31; tall; 17 years' good all-round experience; Dispensing, Prescribing, Photography, Agricultural; management or other responsible position preferred. Watson, Evan Fraser Hospital, Sutton-on-Hull.

LOCUM or Manager; qualified; recent references. "Aspirin," 45 Penwortham Road, Streatham Park, S.W.

MANAGER; M.P.S.; experienced; disengaged shortly; moderate salary. "N. Y." (81/39), Office of this Paper.

QUALIFIED Manager or Locum; elderly; varied experience; good references. Swift, 262 Earlsfield Road, Wandsworth.

DISPENSER (Surgeon's); splendid references; experienced; 32; unqualified. "B. C.," 70 Avondale Square, Old Kent Road.

SENIOR or Manager; 30; qualified; high-class Dispensing and Retail experience; good references. "Chemist," 3 Ayr Street, Nottingham.

WHOLESALE.

LABORATORY Help.—Well-educated youth desires situation as helper in the Analytical Laboratory of a Wholesale house. 229/34, Office of this Paper.

WEST OF ENGLAND.—Advertiser, first-class connection medical men and trade, successful interviewer, desires change. Address, "System," "Rushworth," Newton Abbot.

PERFUMER, Analytical Chemist, thoroughly experienced, very successful New Blends, desires appointment; would undertake Management of new Department. 82/20, Office of this Paper.

TRAVELLER with 15 to 20 years' connection amongst the Chemists on the South of England ground is open to Represent a leading house for the New Year or 1 or 2 firms on commission terms. Apply, 78/8, Office of this Paper.

EXPERIENCED Traveller, with connection regularly worked for over 15 years, is open to Represent good firm on South and South-West Coasts; terms, commission and part expenses. Reply to 73/19, Office of this Paper.

WORKS Manager or Analyst; General Manufacturing and Commercial experience; Galenicals, Fine Chemicals, Confectioners' and Brewers' Materials; Surgical Instruments. Apply, in confidence, "Demonstrator" (78/31), Office of this Paper.

ADVERTISER (26) desires re-engagement in Wholesale Drug-house, preferably North of England or Scotland; 12 years' experience in the trade; possesses all-round Office experience, Invoicing, Ledger work (Bought and Sales), Correspondence, etc.; moderate salary; references and copies of testimonials on application. 77/19, Office of this Paper.

MISCELLANEOUS.

McADAM & TUCKNISS, Sharedealers, 30 Tranquil Vale, Blackheath, S.E. Telephone:-81A Lee Green.

SHARES FOR SALE (free of commission, subject).—20 Apollinaris Ordinary, 70s. 6d.; 40 E. Cook £10 Preference, £5 13s. 9d.; 200 J. C. & J. Field 7 per cent. Preference, 14s.; 100 Idris "A" 6 per cent. Preference, 4s. 9d.; 50 Parke's Drug Ordinary, 11s.; 125 6 per cent. Preference, 15s. 6d.; 100 Stevenson & Howell Preference, 21s. 6d.

WANTED (subject).—1 Camwal Debenture, £33 10s.; 200 Allen & Hanburys "B" Preference, 23s.; 100 Wright, Layman Preference, 21s. 1½d.; 200 Lewis & Burrows Ordinary, 2s.

List of shares for sale and wanted sent free on application. Bankers, London County and Westminster. Established 1898.

SECOND-HAND bargains (ready to be sent off at once).—17-ft. mahogany Counter, glass cases in front, £10 10s.; 18-ft. ditto, £10; 12-ft. ditto, £8 10s.; 6-ft. mahogany and plate-glass Counter-case, 84s.; 5-ft. ditto, 75s.; Perfume-case, 25s.; also 250 others; Screens, Fittings, Wall-cases, etc., etc. See page 4 of last week's issue. Write for particulars of what you want to PHILIP JOSEPHS, 93 Old Street, London, E.C. 9057 London Wall.

CHEMISTS' SHOP-FITTINGS (SECOND-HAND). — Ranges mahogany drawers, with bevelled-edge glass labels and ont-glass knobs, shelving above, lockers below; mahogany dispensing-screens, counters with glass-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-desks, tooth-brush cases, complete shop-rounds, etc.; every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogues and estimates free. MATTHEWS, CHEMISTS' FITTER, 14 and 16 MANCHESTER STREET, LIVERPOOL.

VERY CHEAP OFFER (Secondhand).—One 3-tier plate-glass Show-stand, 3 ft. long, 2 pillars, suit window or counter, 30s.; 1 13-ft. 6-in. range of 70 mahogany Drawers, with glass labels and knobs, lockers, shelving, pilasters and cornice, £12 7s. 6d.; 1 14-ft. range of 32 Drawers, labelled, 35s.; 4 30-oz. ol. bottles, gold labelled, 10s.; 1 nest of 6 Counter Drawers, label, etc., 15s.; 1 special set of 3 plate-glass shelves, 3 ft. long, for window, with standard bars and brackets, 30s.; 1 4-ft. ditto, 42s.; 1 6-ft. Dispensing-screen, with bevelled mirror and marble slab in centre, £5. R. TOMLINSON & SONS, Bond Street, Constitution Hill, Birmingham.

PLATE-GLASS Shelves, Window-fittings, Carboys, Counters, Drug-fittings, Dispensing-screens, Wall Cases; second-hand; send for list; cheapest house for high-class fittings; complete Chemist fitters; estimates and designs free; men sent to all parts. TREBLE & CO., Shop-front Builders, Ringwood Road, Walthamstow, London.

WE HAVE WHAT YOU REQUIRE, Drug Fittings, Counters, Wall-cases, Dispensing-screens, Perfume-cases, etc., in almost all sizes; second-hand; condition first-class; prices reasonable. Write for sketches and details giving approximate sizes, or call and inspect. RUDDUCK & CO., 262 OLD STREET, E.C.

TO Trustees, Executors, Liquidators, and others.—Immediate cash to any amount for all descriptions of Chemists' Stocks Fittings, Fixtures, Wholesalers' Oddments, and Druggists' Sundries; best prices given; cash advanced for any solvent business which can show a good turnover. Apply, in confidence, to J. H. Hemmings, 2 Scylla Road, Peckham Rye, S.E.

BUSINESS BUILDING.—The true secret of Business Building consists in offering reliable Preparations of your own putting up, which ensure customers "asking for more," and which cannot be obtained everywhere else. Advertiser is prepared to supply such from recipes which he has proved to be business-bringers, at a price which shall cover only cost of time and materials. In no instance do these preparations resemble ordinary arm-chair or wholesale put up preparations. Correspondence invited. No free Samples. Seasonable articles are Cold-cure Capsules; Toilet Cream, with and without Glycerin, Asthma-powder, Cough-pastilles, Malt and Oil, and Chilblain application, each unique and guaranteed, advice on other preparations offered. "Business Pharmacist" (79, 5), Office of this Paper.

Re SPECIAL XMAS SCHEME

A Pharmacist writes. "Am greatly taken with it." Another "Very pleased indeed." This is one of the most artistic schemes a Pharmacist has had, and I myself am more than satisfied with it. Xmas shows have been ready for some time, and this week will send one to Pharmacists who apply for a copy of my booklet, "How to INCREASE YOUR BUSINESS," free of charge. Only one in a town supplied. Send post card for booklet, &c., to-night. See last week's supplement—"Business for Sale."

J. R. B. ALLISON, Pharmacist and Business Specialist, BETFORD.

For Two & Sixpence

We will send you a parcel containing the following all worded for advertising your goods as "Christmas Presents."

2 Large Window Posters; 6 Window Slips; 2 Handsome Showcards; 24 Window Tickets (assorted sizes).

Money willingly refunded if dissatisfied.

DUDLEY & CO., Ticket Experts, Holloway Rd., London, N.

SOME THREE YEARS AGO

writes a Bedfordshire Chemist, "I had the pleasure of being assisted by you. As I see no signs of anyone else adopting your methods in this town I wondered whether you would be inclined to take up my business again." Very many letters to same effect have been received recently, so that you see though Chemists can do without me, they realise that they can increase their business better with me.

Can't I HELP YOU TOO?

Booklet, &c., free on application.

BERNARD SLACK,
Princes Chambers, Wolverhampton.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6*d*.

FOR DISPOSAL.

APPARATUS.

CHEMICAL-BALANCE (by Oetling) and set weights in case; good condition. 30*s*. ELBOURNE, 62 Wrottesley Road, Plumstead.

BOOKS AND PERIODICALS.

WHAT offers? 4 "Chemists' and Druggists' Diaries"; unused; perfect; 1906 to 1909. "K.," 29 Minet Avenue, Harlesden.

WHAT offers? Complete set Preliminary books; also McEwan's "Art of Dispensing," Ince "Grammar of Pharmacy"; good condition. GOULDEN, 22 Pratt Street, Lambeth Road, S.E.

DENTAL.

TEETH dentures (show specimens); 45*s*.; cheap. "DENTALIS" (77, 33), Office of this Paper.

DRUGS AND CHEMICALS.

TEN pounds English lavender oil, 1903, 23*s*. lb.; ounce Neroli 20*s*.; ounce cocain hyd., 9*s*.; 36 Keene's cold-cure, 14*s*. 9*d*. 73/16, Office of this Paper.

FORMULÆ.

CLOCH brass-polish formula for sale. FRANCE, 43 Vartry Road, London, N.

DENTAL best anæsthetic; absolutely safe, painless extractions a certainty; formula 5*s*. SMITH, 4 Market Street, Lurgan Ireland.

CERTAIN chilblain-cure, paint for unbroken, ointment for broken 1*s*. 6*d*. each formulæ 2*s*. 6*d*. two, post free. KENDRICK, 72 Emmanuel Road, Balham.

OPTICAL AND PHOTOGRAPHIC.

6 DOZ. microscope slides, 2*s*. doz., 10*s*. lot; approval. SMITH, 136 Industry Street, Sheffield.

37 PAIRS Bruce Green's folders and spectacles for both sights, including two "bronzines"; 18*s*. 6*d*. the lot to clear. SCOTT, 100 High Street, Ilfracombe.

LANTERN, "Photogenic"; 4-in. lens; nearly new; with slides cost £8, three guineas; microscope (botanical); mahogany case, 12*s*. 6*d*. FULLER, Embankment, Bedford.

STUDENT'S microscope, three powers, with slides, 25*s*., or offer; Wills' guinea materia medica cabinet, 7*s*. 6*d*.; Whitla's "Pharmacy," good condition, 4*s*. 6*d*. SAMWAYS, 15 Atherfold Road, Clapham, S.W.

PROPRIETARY ARTICLES.

STOCKTAKING Surplus.—1 doz. 2*s*. 6*d*. Field's cattle oils. 1 doz. Sand soap 1*s*. 3 gross 1*d*. vaseline. Offers to TWIGG, Chemist, Withernsea.

SHARES.

SHARES for Sale. See p. 63.

SHOP FITTINGS.

SECOND-HAND show carboys, black, 3 dozen, offers. Apply, 72/13, Office of this Paper.

FOR sale, 2 hanging carboys; latest pattern; new condition; similar to those sold at 30*s*. each; will accept low price to clear. LESLIE MARTYN, LTD., Chemists, 34 Dalston Lane, London.

MISCELLANEOUS.

FOR sale, 6 steel oil drums, 40 gals., 12*s*. each or offers. ALLEN, Biggleswade.

PLASTER model (Cartwright's), perfect; splendid cough-cure advertisement, 12*s*. 6*d*. PRICE, Chemist, Lewisham.

BRASS suppository-mould (75 grs.), barrel powder folder, 10 vaccination-shields, ½ doz. silver-plated respirators, slightly soiled. Best offer. RALPHS' Drug-stores, Grimsby.

4 OZ. saffron, 2*s*. oz.; ½ doz. elliptical bull syringes, 2 oz., 9*s*. doz., 2¾ oz., 11*s*. doz.; 1 yd. spongio piline, 4*s*. 6*d*. per ½ yd.; 2 doz. xylonite dishes, with lifter, ¼ pl., 2*s*. 6*d*. doz.; ½ pl., 4*s*. 6*d*. doz.; 1 doz. dental-plate brushes, 2*s*. 6*d*. doz. WILSON, Chemist, Balham.

WANTED.

DENTIST'S pedestal spittoon, must be cheap. "G. F.," 270 Lake Road, Portsmouth.

MORTAR, pestle, and "British Pharmacopœia" TAYLOR, 35 Waterloo Road, Smethwick.

PLATINUM, crucibles, wire, foil; full value remitted. ROWSELL, 11 Crebor Street, Dulwich.

MORTON'S ophthalmoscope; thin mirrors and lens in frame. T. WILLIAMS, London Hospital.

NEST of drawers, 8 to 10 ft. by 3 ft., labelled or otherwise. WYATT, Broadway, Mortlake.

"PHARMACEUTICAL FORMULAS," latest edition. State price, MOWAT 137 Fawcett Road, Portsmouth.

SHOP-ROUNDS, dispensing-screen, and fittings; cheap. State sizes and lowest price. 81/32, Office of this Paper.

GLASS shelves, brackets, etc., for windows; also counter-case, 9 ft. 6 in. by 2 ft. 2 in. approximately. ROBERTSON, Buckie.

DENTAL outside show-case, with plate-glass shelves. Send full particulars to "E. B.," Shirley House, Foxley Road, Stockwell, London.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. GOWER, Bookseller, Waterloo, Liverpool.

ADDRESSES WANTED.

WILL Mr. S. Thompson, who last wrote to the *C. & D.* from 100 Grosvenor Road, Belfast, please communicate with the Publisher, 42 Cannon Street, London, E.C.?

Printed for the Proprietors by SPOTTISWOODE & CO., LTD., New-street Square, and published by the Proprietors at 42 Cannon Street, in the City of London.—*December* 11, 1909.

THROUGH ALL WHOLESALE HOUSES.

BARNETT'S

ARE GIVING AWAY

absolutely free and post paid until Christmas

A

2 lb. Sample Cold Cream

to any Chemist who says he has not tried it.

2 lb. Boxes 1/6 lb., less 10%.

6d. Pots (1¾ oz.) 4/6 doz., 10%, or Cards of 18 × 2d. Tins 2/- Card, 10%.

The World challenged to produce its equal in appearance or effect, as a Cold Cream, Face Cream, or as a Chemists' Specialty Cream, guaranteed never to go rancid in any temperature, or alter in its appearance. This article was the only cause of the revival in sales of Cold Cream, and created the demand for skin foods. Its superiority and its enormous sale created many imitators, but as yet no equal. Prove it by examination. Sample is free. Keep the sample for a few weeks by the side of imitations, and then judge for yourself.

BARNETT & CO., Manufacturing Perfumers,
126 Bristol Street, BIRMINGHAM.

The Lescol Perfumery Co.

FINEST

CONCENTRATED PERFUMES

PARMA VIOLETS, JOCKEY CLUB, OPOPONAX, NEW MOWN HAY,
RUSSIAN VIOLETS, SWEET PEA, WHITE ROSE, WALLFLOWER,
and all varieties of exceptional value.

Speciality: "NICOSIA."

No. AA 1 1 oz. ... **10/3** per doz. ***1/3** each | No. AA 3 3 oz. ... **23/3** per doz. ***2/9** each.
No. AA 2 2 oz. .. **17/-** per doz. ***1/9** each | No. AA 4 4 oz. ... **29/-** per doz. ***3/6** each.
No. AA 5 8 oz. ... **53/9** per doz. ***6/-** each.
*P.A.T.A. Prices.

We have been extensively advertising "NICOSIA" in the principal periodicals and magazines to create an interest which should lead to Chemists receiving inquiries for this speciality.

Illustrated Price Lists on application to

GEORGE ST., CAMBERWELL GREEN, LONDON, S.E.

CHUIT, NAEF & CO.

GENEVA (Switzerland).

MANUFACTURERS OF

Synthetic & Aromatic Chemicals

invite special attention to the following products :

CYCLOSIA, new base for floral odours.
PHÉNÉTHYLOL, constituent of the natural Oil of Roses.
LINALYL ACETATE, art. terpeneless oil of Bergamot.
MUSKAMBRENE, 40 times stronger than ordinary Musk.
OILS OF VIOLETS (art.), all grades for perfumes and soaps.
IRALIA 100%, for new and lasting effects.
PERSICOL, new synthetic for fruit oil manufacturers.

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A. BEROU, 11 Rue du Perche, Paris 3e. Arrt.
UNGERER & Co. (Inc.), 273 Pearl Street, New York.

Samples & Price Lists sent on Application.

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selling **NI-VERRE SHAMPOO ?**

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1st—It is the best got up article in the market
2nd—It is as good as it looks
3rd—It is supplied to Chemists and Druggists *only*
4th—It brings your customer back for more

Special Offer. 2 gross NI-VERRE SHAMPOO with ½ gross FREE AS BONUS, good supply of ad. matter, carr. paid, for 14/- the lot.

This works out at **5/7 per gross net.** On receipt of p.c., sample will be sent post paid to any part of the world.

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Latest Creations of the Nyon Factory—

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SOLE AGENTS FOR GREAT BRITAIN :

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Dunster House, Mincing Lane, Telephone No. 1692 Avenue. LONDON, E.C.

OKELL'S ORIGINAL MONA BOUQUET

(First introduced by the late JOSEPH O'KELL).

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling perfume in the market.
Retail Prices ... 1/-, 1/9, 3/6, 6/-, 7/6, 10/6 per Bottle.

ALSO 3d. SAMPLE BOTTLES.

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We cannot name them all here in this limited space, but write for full particulars at once. Viscose Caps will save you time, labour, money, and will increase efficiency.

For Capping Everything

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THE PLASTIC MODEL

SPECIALISTS.

All kinds of Artistic Models supplied suitable for window or counter displays.

Specimen, as illustrated, supplied on separate bases, price 7/6 each, or back to back on one base with revolving pivot, price 12/6
Chemist's own name printed in space provided free of charge. Modelled in relief 2/- extra. Terms: Cash with order. Quotations given to firms requiring a quantity from special model.

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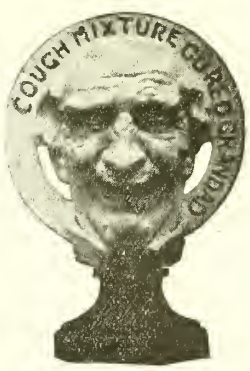

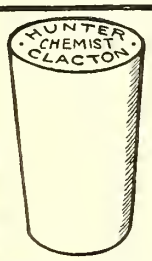

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WINTER ISSUE.

January 29, 1910.

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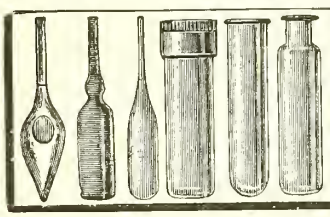

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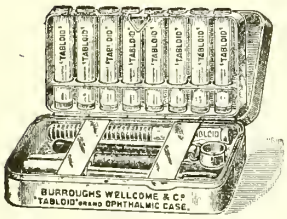

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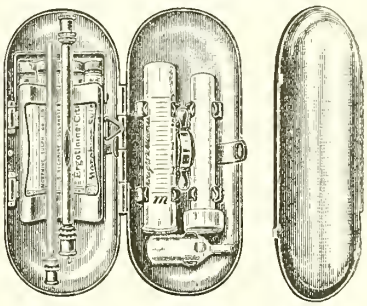
Nos. 20 and 40, Aseptic Hypodermic 'Tabloid' Brand Pocket-Cases will be ready shortly.



No. 40. Aseptic Hypodermic 'Tabloid' Brand Pocket-Case
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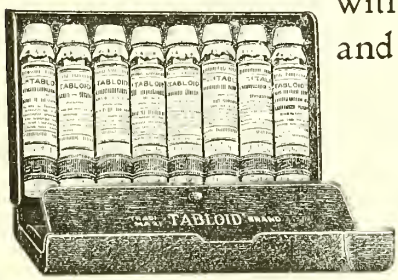

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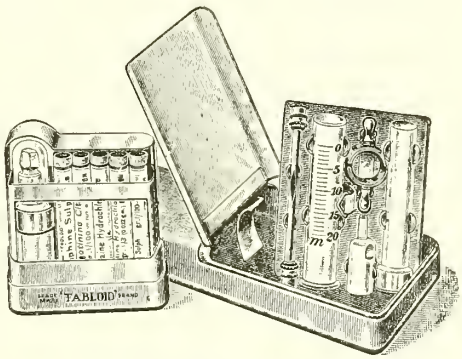
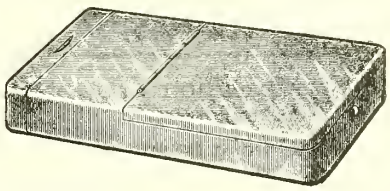
In Nickel-plated Metal, complete with Doeskin cover, **16/0**



No. 20. Aseptic Hypodermic 'Tabloid' Brand Pocket-Case
(Registered)

Measurements, *closed*: 4½ × 1¾ × ¾ in.
(illustrated below)



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EFFECTIVE PUBLICITY.

THIS is the title of a handsome circular produced by our Publisher, which he will send to any business house on application. It is about the advisability of manufacturers' own circulars and price-lists being inserted as insets in THE CHEMIST AND DRUGGIST Winter Issue, to be published on January 29, 1910. The following is the first "argument":

> We have recognised all along that the business man advertises for results—not for fun.
>
> Our aim, therefore, has been to ensure him the best results possible, by building up a circulation unique in extent and in value.
>
> Every issue of "The Chemist and Druggist" contains valuable information for the subscriber, be he manufacturer, wholesaler, or retailer. Thus our journal is read carefully from cover to cover each week by traders anxious to make money by buying and selling the goods advertised.

As to the rest, please write to the Publisher, 42 Cannon Street, London, E.C.

Summary of the Week.

Articles and Communications.

Standardisation of disinfectants is commented upon (p. 899).

An original method of advertising for retail chemists is described on p. 902.

The commerce and chemistry of Soya oil are dealt with in an article on p. 898.

Recent researches on essential oils are referred to under Scientific Progress (p. 901).

"Chemist-Optician" writes on several topics which interest his *confrères* in the craft (p. 901).

In the page of Medical Gleanings are notes on ailments which are common at this season (p. 900).

The stocks of opium in Turkey are the subject of a communication from Mr. Shirinian, of Smyrna, on pp. 913-4.

Doctors are habitually infringing Section 17 of the Pharmacy Act, 1868, and "The Lancet" has called attention to the matter (p. 897).

About sixteen millions more export and import business was done by the United Kingdom last month as compared with November 1908. The bullion imports are also greater than the exports (p. 896).

Dr. H. W. Wiley, of Washington, is surprised that Mr. Parry should have commented as he did on November 20 on the lemon-oil question. His department is now in a position to exclude importations of oil adulterated with lemon terpenes (p. 913).

The word "pharmacy" reverse is growing more intense, and is referred to in several places in this issue. "Xrayser II." traces the origin of the word (p. 895). Mr. Geo. S. Woolley thinks Mr. Herbert Samuel should "make good" his word, and that we should urge him to do so (p. 913). We show that Mr. Samuel did not pledge himself as regards "pharmacy," and that the Pharmaceutical Council is solely responsible for the present position (p. 899 and p. 913). Mr. Dott supports this (p. 913). The President of the Pharmaceutical Society spoke on the subject at Bath on Wednesday (p. 906).

General and Trade News.

Company pharmacy is growing in the United States (p. 888).

The names of the shareholders in Cupal and U.C.A.L. are on pp. 890-1.

Orange River Colony chemists are fighting for an independent status (p. 887).

Some particulars in regard to apiol are sent by our Paris correspondent (p. 886).

Two convictions under the Pharmacy Act (Ireland) are reported from Belfast (p. 889).

The new British Pharmacopœia is not likely to see the light before the middle of 1911 (p. 895).

Artificial silk was the subject of discussion at the Society of Chemical Industry meeting in London this week (p. 904).

The Hammersmith inquiry in regard to an obesity remedy has been concluded. The Coroner put some pertinent questions (p. 883).

An amendment of the Cape Colony Act which authorises stamping of medicines is going through. The provisions are specified on p. 887 and criticised on p. 897.

Mr. E. M. Chater, an honoured pharmacist of Watford, died last week. We also report the death of Mr. F. Jones (Bridport), who contributed to our Jubilee Issue (p. 892).

The Federation of Pharmaceutical Associations is to get the B.P.C. afternoon session on July 26, 1910, to give a sample of what a commercial section of the Conference would do (p. 893).

The Chemical Society's meeting last week was exceptionally lively and interesting. A new precipitation-test for sodium, a synthesis of hordenine, and a dispute between Sir T. E. Thorpe and Dr. A. Scott about the atomic weight of carbon were outstanding features (p. 903).

Trade Matters.

The few market features this week include a further advance in glycerin, more activity in menthol, and a revival of American buying in opium. Otherwise business is mainly confined to current requirements (p. 909).

There is no change in prices of spirits, but wholesale druggists promise a rebate of 3*s.* 9*d.* per proof gal. if they eventually get that from the Revenue authorities. Circulars and particulars of wholesale action are given on p. 908.

B

English and Welsh News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Brevities.

The premises of Timothy White Co., Ltd., in High Street, Sittingbourne, were entered by burglars early in the morning of December 1, and the contents of the till stolen.

The Agricultural Seed-traders' Association decided at the first annual meeting, held in the Hotel Cecil, London, W.C., on December 6, to offer the post of analyst for the purpose of testing seeds to Professor Bitten, of Cambridge University.

In our report last week of Mr. R. R. Bennett's paper on "Hospital Pharmacy," read before the Chemists' Assistants' Association, the average cost per attendance of each outdoor patient was given erroneously as 3*s.* 11*d.* instead of 3.11*d.*

At the Holborn Restaurant on December 2, Mr. W. S. Glyn-Jones addressed a private meeting of manufacturers and wholesalers in regard to his parliamentary candidature. The meeting was called by the P.A.T.A., and Mr. Glyn-Jones indicated the lines of work on behalf of the trade which lie before him when he gets to St. Stephen's.

In the City of London Court, on December 2, before Judge Lumley Smith, K.C., a claim was made by Mr. Fred Austin, trading as the Impulsio Co., 45 Hatton Garden, for 3*l.* 15*s.* 9*d.* for Impulsio disinfectors supplied to the defendants, Robinson, Pickering & Hunt, Ltd., Talbot Court, Gracechurch Street. Defendants said they took the goods on sale or return, but Mr. Austin denied this and won the case.

Two postal packets of melancholy interest have been forwarded to us this week, being part of the mail washed ashore after the wreck on December 3 of the ill-fated Manx passenger-steamer *Ellan Vannin*. One is a postcard from a Ramsay chemist advising the return of two hampers to Messrs. Ayrton, Saunders & Co., Ltd., Liverpool. Both sides bear reversed writing from contact with other portions of the wet mail. The other is an envelope addressed to Messrs. Newball & Mason, Nottingham, by a firm of Douglas chemists.

The London County Council, on December 7, confirmed the recommendation of the Public Control Committee that a licence be granted for twelve months to the British Petroleum Co. to keep 270,000 gals. of petroleum-spirit at the company's premises in Stavenage Road, Fulham, subject to various conditions securing safety to the public. An amendment to refuse the licence until the views of the Port of London Authority, as to the use and conveyance of petroleum-spirit in large quantities on the Thames, had been ascertained, was rejected.

The Lancaster Chemists' Association, at the request of Mr. J. B. Shattock, made an effort some weeks ago to establish a local Chamber of Trade. A public meeting at the Town Hall on December 2 saw the seal of success placed upon their endeavours, when eighty-nine tradesmen gave in their names as members of the new chamber which has been successfully inaugurated. Mr. A. Bate (Messrs. Bate & Gorse, chemists) was appointed Treasurer; Mr. W. Arkle regretted that he was unable to fill one of the two vice-presidentships; while Mr. J. B. Shattock could not find time to become a member of the committee.

The Stockton-on-Tees Town Council considered on December 3 a memorial from the local chemists *re* a closing order under the Shop-hours Act. The desired hours of closing were on Monday, Tuesday, Wednesday, and Friday at 9 P.M.; on Thursday at 1.30 P.M., opening again from 7 P.M. to 8 P.M.; and on Saturday closing at 10.30 P.M. Mr. M. Robinson considered the closing hours to be extraordinary; but Mr. Pickworth pointed out that the chemist's business was exceptional, saying that a Council resolution would be necessary that no one should be ill after 8 P.M. if that time was to be the closing hour. The Council decided to take the usual steps to carry out the wishes of the chemists.

The Drug Club.

The annual meeting of the members of the Drug Club was held in Cannon Street Hotel, London, on Tuesday afternoon, December 7, Mr. John C. Umney, F.C.S. (President), in the chair. There was a full attendance of members, and the business discussed included the spirit-duties as they affect pharmaceutical preparations, to which reference is made elsewhere in this issue. The office-bearers were re-elected, namely, Mr. Umney (President), Mr. G. Bult Francis, F.C.S. (Vice-President), and Mr. Chas. Alex. Hill, B.Sc., F.I.C. (Secretary). In the evening the members dined together in the Trocadero Restaurant, over fifty being present.

Royal Institution.

At the monthly meeting of the members on December 6 Geh. Reg. Professor Dr. Otto N. Witt, President of the Chemical Society of Berlin, and Professor G. E. Hale, Director of the Mount Wilson Solar Observatory of the Carnegie Institute, Washington, were elected honorary members.

The lecture arrangements at the Royal Institution include a Christmas course of lectures on "Modern Electricity," by Mr W. Duddell; a series of three lectures on "Illumination, Natural and Artificial," by Professor Silvanus P. Thompson; and six lectures on "Electric Waves and the Electromagnetic Theory of Light," by Sir J. J. Thomson. The Friday evening meetings will commence on January 21, when Sir James Dewar will deliver a discourse on "Light Reactions at Low Temperatures."

Spectacle-makers' Company.

In conversation with the clerk of the Company (Colonel T. Davies Sewell), we are informed that the page advertisement giving the names of the diploma-holders, which was inserted in the "Daily Telegraph," has been much appreciated by the trade. Mr. John Gibson, Hexham, procured 120 extra copies of that issue and distributed them among the local medical men and others in the neighbourhood likely to be interested. In response to numerous requests the Company have made arrangements to supply reprints of the list mounted on linen and with rollers, for hanging up in business houses. These are to be supplied to qualified opticians at a nominal price.

Lectures on Essential Oils.

In the ninth lecture of the series delivered by Mr. C. T. Bennett, B.Sc., F.I.C., at the Borough Polytechnic Institute, the artificial products used in perfumery were dealt with. The subjects included vanillin, coumarin, heliotropin, aubépine, ionone, irone, artificial musks, artificial neroli, lilac, hyacinth, and rose, and the various synthetic esters, such as methyl salicylate, methyl and ethyl benzoates, amyl salicylate, benzyl acetate, benzoate and cinnamate, linalyl acetate, etc. Specimens lent by Messrs. Wright, Layman & Umney, Ltd., were exhibited.

Wellcome Photographic Club.

The members of the above club held their eighth annual exhibition at the Wellcome Club and Institute on December 4. Mr. G. E. Pearson, general manager for Messrs. Burroughs Wellcome & Co., in performing the opening ceremony, stated that the membership was now fifty, against twenty-two originally. The judge, Mr. F. J. Mortimer, F.R.P.S., said that as a members' exhibition it was excellent, the work being very encouraging. In Class A, open to all members, the first award, of a bronze casket (presented by Mr. G. E. Pearson), was obtained by Mr. Lane for a portrait, Mr. G. T. Gale securing the second place with "The New Bailey." Messrs. E. G. Price, W. H. Fowkes, F. H. Carr, F. S. Clarke, and F. C. Starnes obtained honourable mention. In Class B, open to members who had not previously won awards, the first bronze plaque (given by Dr. H. A. D. Jowett) was won by Mr. R. G. R. Swainson by his representation of "Homewards." The second bronze plaque was awarded to Mr. F. H. Carr for his picture, "Taking the Air." In the Technical section Messrs. H. G. Sayer and G. G. Watt obtained honourable mention.

A Chemists' Hobby.

The second portion of the collection of British lepidoptera formed by the late Mr. J. A. Clark, chemist and druggist, was sold by Mr. J. C. Stevens at the auction rooms, 38 King Street, London, W.C., on December 7 and 8 (see *C. & D.*, November 6, p. 699). The prices realised were for the

most part good, the two sales realising about 900*l.* Another portion, comprising the micro-lepidoptera, is to be sold in February.

Contracts.

Crewe Corporation Isolation Hospital.—Executors of the late Mr. E. Booth, for druggists' sundries.

Canterbury City Council.—Mr. R. Croft, 1 The Parade, Canterbury, is appointed chemist for six months.

Malling (Kent) Rural District Council.—Mr. H. C. H. Oliver, chemist and druggist, West Malling, for disinfectants at 124*l.* 11*s.* 2*d.*

London County Council.—For annual supplies of chemical and physical apparatus: Baird & Tatlock (London), Ltd., 71*l.*; Brown & Son, 112*l.*; O. Comitti & Son, Ltd., 12*l.*; A. C. Cossor, Ltd., 14*l.*; A. Gallenkamp & Co., Ltd., 373*l.*; J. J. Griffin & Sons, Ltd., 474*l.*; Pastorelli & Rapkin, Ltd., 5*l.*; Perken, Son & Co., Ltd., 12*l.*; Townson & Mercer, 251*l.*; the West London Scientific Apparatus Co., 82*l.*

Sale of Food and Drugs Acts.

The Kensington analyst reports having analysed twelve samples of arrowroot, which were all genuine.

One sample each of camphorated oil and paregoric have been examined in Bethnal Green with satisfactory results.

Thirteen samples of ammoniated tincture of quinine and five of eucalyptus oil taken for analysis in Camberwell during the past three months were all found to be genuine.

The Sheffield analyst examined during the past quarter ten samples of camphorated oil, four of sweet nitre, and three of compound liquorice-powder. All the sweet-nitre samples were of inferior quality, but their deficiency was not sufficient to warrant condemnation. The other samples were returned as genuine.

The Greenwich analyst reports on the following samples: Borie-acid ointment, 6; glycerin, 6; camphorated oil, 5; liniment of iodine, 2; olive oil, 4; spirit of camphor, 4; sweet spirit of nitre, 4; and olive oil, 2. All were genuine except one sample of iodine liniment, which was 55 per cent. deficient in iodine and 48 per cent. deficient in potassium iodide; it also contained 2.7 per cent. of extractive matter.

Sheffield Notes.

Mr. G. T. W. Newsholme is now very much better, having gone back to business. He is also getting into harness again with his public work, and has just been re-elected a member of the South-west District Sub-Committee of the Old Age Pensions Committee.

Mr. J. H. Preston, son of Mr. Job Preston, chemist and druggist, Barker's Pool, has just secured the degree of Bachelor of Science of the London University. He received all his training locally, first at the Royal Grammar School and then by scholarship at the Sheffield University College and Sheffield University.

Fires.

A small fire occurred on December 4 at the Black Bull Works of Messrs. F. Schutze & Co., druggists' sundriesmen and perfumers, Caledonian Market, London, N. The damage was comparatively small and not of a character to cause interruption of the business.

The perfume-works of Storton's, Ltd., chemists, Grove Road and Alcombe Road, Northampton, were the scene of a disastrous fire on December 4. The outbreak was caused by the bursting of a bottle of ether, whose contents reached a gas-stove. The premises were burnt out. The damage is stated to be covered by insurance.

An outbreak of fire occurred on the premises of the Timothy White Co., Ltd., at the corner of Union Street and Cross Street, Ryde, shortly after midnight on December 4. The fire started in the window in which was contained the Christmas display of perfumery. The conflagration was prevented from spreading, but damage is estimated at 200*l.* to 300*l.*

Police-court Charges.

At the West London Police Court on December 8, John Augustus Stowell, dispenser, was committed for trial on a charge of forging and uttering two withdrawal notes belonging to Dr. E. H. Edlin (*C. & D.*, December 4, p. 844).

At the East Ham Police Court on December 2, Jano White, who stated that she was a certificated nurse, was fined 2*s.* 6*d.*, with costs, for acting as a pedlar without a licence. Defendant, accompanied by two others, all being attired in nurse's costume, went from door to door offering medicated soap for sale.

At the Central Criminal Court on December 8, Frederick Clark (18) pleaded guilty to forging and uttering a cheque value 12*l.* The prisoner obtained the cheque-book of his employer, Mr. D. L. Evans, chemist, 106 Church Street, Kensington, London, W., and filled in one of the blank cheques, which he presented at the bank. The prosecuting counsel stated that the imitation was a good one, but as prisoner had crossed the cheque he was unable to cash it. The Recorder postponed sentence, telling the prisoner that he might be discharged at the sessions.

At the West London Police Court on December 7, George Wilson (34), described as a chemist, was bound over for twelve months in the sum of 12*l.* on a charge of stealing a bottle of bovril from his employers, Messrs. Vincents, Ltd. (*C. & D.*, December 4, p. 844). Mr. H. Pierron, solicitor, pleaded on behalf of the accused that he had contracted the drug-habit, and that he took the bottle of bovril when in a dazed condition. Accused, who had a wife and four children, was formerly in business for himself, but failed in consequence of the pernicious habit.

Obesity Tablets.

The Hammersmith Coroner (Mr. C. L. Drew) concluded on December 4 the inquiry with reference to the death of Sarah Hasdale (58), which had been adjourned for an analysis of certain tablets deceased had taken as an obesity-cure (*C. & D.*, November 13, p. 736). Mr. Frank Derry, the proprietor of Nelson Lloyd's Obesity-cure, recalled by the Coroner, stated that his medical knowledge was confined to what he had learnt twenty years ago as secretary to a medical man. He had not been in the present business very long. The following colloquy ensued:

> The Coroner: Since the last hearing I have had the advantage of reading your book. Did you write it? It is signed "Nelson Lloyd."—Witness: Of course, Nelson Lloyd is an imaginary person. The book was written for me.—In your book you say "while studying for my degree."—That represents the man who wrote the prescription. He assisted in the business.—But you are said to be Nelson Lloyd?—Yes; it is a joint effort.—When was the book first published?—In the spring of last year.—In the book you say, "After I had succeeded in curing myself I decided to take up the cure of obesity instead of that of medical practitioner."—That represented the medical man who assisted me.—Obesity, you say, should only be treated by a specialist?—Yes.—You also say you have made a life study of it. Is that correct?—As for me, no; but as for the medical man, yes.—Do you undertake the diagnosis of a case?—With the assistance of a medical man.—Your book is all in the first person?—Well, I had the diagnosis done for me.—Why did you get a medical man?—To help me in my business.—Don't you say in the book that it is your own discovery?—Yes.—And you are not a medical man?—No.

Arthur Williams, a commercial clerk in the employ of the last witness, said that tablets were made by Messrs. Parke, Davis & Co. and Messrs. Gibbins according to the formulæ. Witness answered the letters received in answer to the advertisement. No diagnosis was made in the first instance, and when it was made it was by the medical man. There was not the slightest harm in the first treatment which the deceased received. John Holmes, Herne Hill, said he was qualified as a medical practitioner in America, but not in this country. He went over the consultation forms and ordered the treatment. There had been good results from the use of his formulæ. Dr. Freyberger stated that there was nothing harmful in the tablets if they were taken in small quantities. He had come to the conclusion that death was in no way accelerated by the tablets. The jury then returned a verdict of death from natural causes.

A Dose of Laudanum.

At the inquest held at Portsmouth on December 3 regarding the death of Mrs. Ann J. Collins (52), of Stamshaw, it was stated that deceased asked Mr. J. W. McIntosh, chemist and druggist, Twyford Avenue, Stam-

shaw, for something to relieve an excruciating pain in her side. Mr. McIntosh advised deceased to consult a doctor, which she promised to do, but begged for a draught to relieve her. Mr. McIntosh then gave her a small dose of laudanum, which Mrs. Collins took on arriving home.—Dr. Arnold deposed that deceased died from chronic bronchial pneumonia, probably accelerated by the opiate. She had suffered also from kidney-disease, and in such a case it was risky to administer narcotics, the effects of which would be out of proportion to the amount given. The dose given in this instance was the minimum one usually administered. The state of health of the deceased was such that the attack would most likely have proved fatal even if an opiate had not been given.—The jury returned a verdict in accordance with the medical evidence, and expressed the opinion that Mr. McIntosh acted in perfect good faith, but that he had committed a very slight error of judgment.

Birmingham Notes.

Mr. Macomb Chance, of the Olbury chemical-firm, has been appointed a member of the Advisory Board of the Faculty of Commerce of the University.

During the nocturnal gale last week, a fanlight at the premises of Messrs. Canning & Co., chemists, Great Hampton Row, was blown inside, and in falling broke the plate-glass of the shop-window.

The hearing of the action by Messrs. Cadbury, of Bournville, against the proprietors of the "Standard," was concluded at Birmingham Assizes on Monday. After an hour's deliberation the jury found for the plaintiffs, with a farthing damages. An application that the plaintiffs should be deprived of their costs was refused by the Judge.

Football.

Inter-Pharmacy Football League.—London College of Pharmacy F.C. *v.* South of England College of Pharmacy F.C.—This match was played on the latter's ground at Wormholt Farm, Shepherd's Bush, on December 4. In spite of the sodden state of the turf, some excellent football being seen, the play during the first half ruled evenly, Dowson for the "Souths" putting in an excellent shot, which the London goalkeeper saved magnificently. Neale scored for London from a scrimmage near goal, but Buckley made the score equal before the interval. Upon resuming, the "Souths" bombarded their opponents' goal, but Skin, from a break away, added a second goal for the Londoners; a lengthy shot by Harrod, the "South's" left back, ended the scoring, and the game resulting in a draw of two goals each.

The Week's Poisonings.

Five fatalities from poisoning have occurred during the week. In two instances death resulted from misadventure.—The infant son of John Morrison, miner, Stirling, died from the effects of drinking *ammonia* from a bottle he procured from a cupboard below the kitchen sink.—Jonathan Walker (31), dyer's labourer, Bradford, penetrated into the bedroom of his wife, a barmaid at the Turf Tavern, from whom he had been separated for seven years, and poisoned himself with *hydrocyanic acid*.—An unemployed Glasgow boot-finisher named James Dinnie (47) took *oxalic acid* for suicidal purposes. Pneumonia, consequent upon oxalic-acid poisoning, caused the death of George Burt (49), a Paddington baker, who was found in Hyde Park suffering from the effects of poison self-administered.—According to the medical evidence, Francis Thomas Brooks (57), music publisher, Hackney, London, N.E., died from *strychnine* poisoning through drinking a home-made corn-cure instead of his cough medicine, both of which were contained in similar quartern gin-bottles. Deceased was very short-sighted. At the inquest the Coroner remarked that he had never heard of strychnine entering into the composition of a corn-cure, but after tasting the fluid he added, "It is strychnine, but it is not very bitter." Deceased's son said his father was fond of mixing medicines, and that a friend gave him the corn-cure. The jury found a verdict of death by misadventure. The Coroner stated that he did not think it would serve any useful purpose to adjourn the inquest in order to ascertain the source of supply of the strychnine.—At Belfast, Thomas Gaffney (45), a member of the Royal Irish Constabulary, asked for a day off, and then proceeded to purchase 8 grains of *strychnine* at a local chemist's, stating that he desired to poison two cats. He was found later in his room in great pain, and he died on the way to the hospital.

Irish News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Pharmaceutical Society of Ireland.

Candidates for the January examinations should lodge their applications by 11 A.M. (at the latest) on the following dates: *Preliminary Examination*, December 23; *Registered Druggist*, December 23; *Pharmaceutical Licence*, December 29; *Pharmaceutical Assistant*, January 3.

Irish Chemists' Assistants' Association.

The Committee of this Association met at 20 Anglesea Street, Dublin, on December 1. Mr. A. Harmel reported that the number of members has increased to eighty. Mr. W. McCarthy, pharmaceutical chemist, and treasurer of the defunct Dublin Assistants' Association, purposes attending the next meeting for the purpose of discussing the means of transferring to the new Association a balance in his possession.

Spirit-duty.

Messrs. Sumner & Co., Liverpool, have, at the request of the Sligo Board of Guardians, sent an affidavit regarding the extra spirit-duty they have paid on spirituous medicines supplied to the Guardians. The charges were duly authorised by the Board.

The Belfast Corporation on December 1 had before it a minute of the Public Health Committee which stated that a letter had been received from Messrs. John Clarke & Son, Ltd., chemists and druggists, as to payment of duty on spirituous medicines for the Corporation Hospital. The Town Solicitor had advised the committee that he saw no reason to alter his opinion that the contract price must be adhered to. The Council adopted the minute.

Business Changes.

The business carried on by the late Mr. R. W. Carter, Naas, will be continued by his son, Mr. R. J. Carter, pharmaceutical chemist.

Mr. M. D. Carroll, pharmaceutical chemist, who has been acting as manager of Mr. McGrath's Medical Hall, Bagnalstown, for the past three years, is opening a business at Main Street, Boyle. Mr. Carroll was Gold Medallist of the Pharmaceutical Society in 1906-7.

Brevities.

Mr. Patrick J. Fielding, pharmaceutical chemist, Cork, was a grand juryman at the Munster Assizes held at Cork last week.

The South Dublin Board of Guardians are inviting applications, before December 14, for the position of dispenser. The salary is 80*l.* a year, rising to 160*l.* by increments of 5*l.* 6*s.* 8*d.* a year.

Sir Wm. James Baxter, J.P., pharmaceutical chemist, Coleraine, has been recommended as the Liberal candidate for North Antrim by the Executive Committee of the North Antrim Reform Association.

Messrs. Clarke & Co., Belfast, have sent an account for 4*l.* 13*s.* for unreturned empties to the Mohill Board of Guardians. The medical officers have been requested to see that the empties are returned as soon as possible.

At the Londonderry Petty Sessions on December 7, a case was heard in which the owner of a dangerous dog was ordered to keep it under control. Mr. James Glendinning, chemist, Waterloo Place, Londonderry, was witness for the defence, the man who was bitten entering his shop just after he had been attacked by the dog.

J. L. Tease, who has been tried four times at the Ulster Assizes on a charge of inciting a woman to murder her husband by administering strychnine to him, was acquitted. One of the principal witnesses for the prosecution was Mr. W. T. Moore, chemist and druggist, Letterkenny, co. Donegal, who produced his poison register showing a sale of one shilling's worth of strychnine to prisoner in October 1905. He gave evidence as to sales to other people, and the Judge said that his register was very regularly kept. The jury suggested that chemists selling poison should put the date on the label, and the Judge promised to transmit the suggestion to the proper authorities.

Scots News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Brevities.

It is rumoured that Messrs. Inmans, Ltd., are to open a branch at Dunfermline.

Messrs. Nightingale and Ferguson, chemists, have commenced business at Denbeath, Methil.

Mr. William Allan, Ph.C., Dumfries, contributes an article on the High Street of that town to the Centenary Number of the "Dumfries and Galloway Courier and Herald."

Mr. John C. McCorquodale, J.P., chemist, Markinch, Past Treasurer and Secretary of the Freemason Lodge Balgonie No. 764, was, on Thursday, December 2, installed as Right Worshipful Master.

The Dundee Town Council has been supplying prepared milk for babies through selected chemists. Now the Public Health Committee wants to increase the sales, and offers the milk to any chemist in any part of the city who is prepared to take it for distribution at an allowance of 25 per cent. If no chemist can be got in any particular district the dairy-keepers are to be approached.

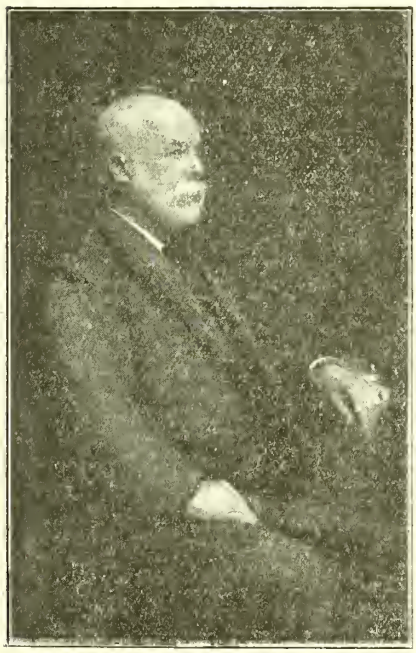
Aberdeen and the North.

East Aberdeenshire pharmacists were to meet in social conclave at Maud on Thursday, December 9, to do honour to a well-known Buchan Loon, Mr. J. F. Tocher.

Mr. A. L. Laing chemist and druggist, Lerwick, who was returned on the local Town Council at the November election, was re-elected Senior Bailie at the first meeting of the new Council.

Many pharmacists throughout the country will hear with regret that ex-Bailie Paterson, of Aberdeen, whose deep interest and unfailing activity in pharmaceutical affairs are well known, is lying seriously ill. For some time the Bailie has not been himself, but his friends were scarcely prepared for the sudden change, which gives rise to much anxiety.

The features of Dr. John Gordon, a leading medical practitioner of this city, are familiar to pharmacists in Aberdeen and elsewhere. He served his apprenticeship to the drug-trade in Aberdeen, and subsequently had experience in Glasgow, where he was with the Glasgow Apothecaries' Co., and for a short time was their town traveller. After this he went to Mr. James Mackenzie, Forrest Road, Edinburgh, where the all-round pharmaceutical work was much more to his taste. He passed the Minor in 1872 and subsequently the Major. He was for some time in business in Aberdeen, and commenced to study medicine at the University there, graduating as M.B., C.M., with honours, in 1884. He took his doctorate four years later with highest honours. Dr. Gordon at that time was assistant to the Professor of Materia Medica at the University, a position which he relinquished owing to his private practice requiring him to devote all his time to it. He is on the staff of the Aberdeen Royal Infirmary, and holds other medical appointments, while his publications include papers on pharmaceutical subjects as well as others dealing with therapeutics, including "The Study of Piperazine" and "The Action of Veratrum Viride in Puerperal Eclampsia."



DR. JOHN GORDON.

Edinburgh.

A pharmacist in the city is showing tooth-brushes ticketed: "Good, 6*d.*; better, 9*d.*; best, 1*s.*"

Several pharmacists discovered that last week was one of the busiest of this year. The duration of the wintry weather is having its effect on those unable to resist cold readily.

Messrs. Sutherland and Gairn (for the last few years senior assistant and dispenser with Mr. Geo. Lunan) open next week a new pharmacy at 11 Drumsheugh Place, Edinburgh.

Miss Jean M. Wright, a sister of Mr. Victor Wright, chemist and druggist, Abbeyhill, is the first nurse to take up duty under the new regulations which empower the school boards to appoint doctors and nurses to visit sick children in their own homes.

The "Evening Dispatch," in an annotation regarding the late Mr. Wootton, says that he "was one of the kindliest men who ever controlled a newspaper," and "a feature of THE CHEMIST AND DRUGGIST is the remarkable friendship that exists between the editorial staff and contributors of all degrees of importance."

St. Cuthbert's Co-operative Association, Ltd., celebrated their jubilee on Wednesday and Thursday, December 1 and 2, by a public meeting and concert, held in the Synod Hall each evening. The President of the Association stated that in 1869 the share capital amounted to 518*l.* 18*s.*; to-day it is 582,136*l.* 13*s.* The dividend paid forty years ago totalled 426*l.* 2*s.* 6*d.*; this year 325,725*l.*

"Slavery in Pharmacy" was the title of a letter which appeared in the "Edinburgh Evening Dispatch" of December 1. The writer began by speaking of "the life, or rather 'living death,' of a chemist's assistant," and ended with the remark, "It makes one sick to ponder over the pharmacist's inhumanity to his assistant." This was backed up by "White Slave."

Glasgow and the West.

Mr. Jas. Thain, of the staff of Messrs. Cockburn & Co., Ltd., St. Enoch Square, sailed on December 9 for Rangoon.

Mr. C. Cochrane, chemist and druggist, Kirkintilloch, sails on December 17 to take up a post on the staff of Messrs. Cargill, Ltd., Colombo, Ceylon.

Mr. Angus Brown, chemist and druggist, has been appointed manager of the business of Mr. T. F. Armstrong, chemist and druggist, 476 Cathcart Road, Govanhill.

It is intimated that Messrs. Anderson & McGilchrist, physicians and surgeons, Glasgow, have dissolved partnership, and Dr. R. Y. Anderson will continue business on his own account at Redclyffe, Bellahouston, and 98 Paisley Road West, Glasgow, and Dr. R. McGilchrist will do likewise at 4 Lendel Terrace, Paisley Road West, and 188 Eglesham Street, Glasgow.

The annual report of the Glasgow and West of Scotland Technical College for 1909 states that to meet representations by the local Chemists' Association it was agreed to establish a lectureship providing a full pharmaceutical curriculum. Mr. J. Grieve, Ph.C., has been appointed lecturer, and a course extending over three years has been arranged. It will be in operation next session.

SOYA-BEAN OIL DUTY IN U.S.A.—Soya-bean oil on importation into the United States having been rated for duty as an "expressed" oil at 25 per cent., an importer has protested that it should be allowed to enter free of duty as "soap stock." The Customs Collector based his assessment on a report made by the Government chemist, who found the oil sufficiently edible to be used in salads and certain cooking operations. The General Appraiser has overruled this decision of the Collector, and the oil will enter at a lower duty.

French News.

(From the "C. & D." Paris Correspondent.)

VICHY WATER.—In view of the unrest caused by the sale of imitation mineral water in this country, the Vichy Company have issued a warning to distributors to see that the blue disc of the company is on each bottle.

COAL-TAR PRODUCTS.—A notice issued by the French Customs Consultative Committee of Arts and Manufactures, dated July 21 last, states that parachloronitroamidophénol is to be considered as a derivative of coal tar (produit de la distillation de la houille), and admitted under Tariff No. 230 at 15f. per 100 kilos.

ATTEMPTED WHOLESALE POISONING.—The soup of a whole squadron of Hussars at Verdun was poisoned last week by cyanide of potassium, and a brigadier named Georges Faraco has been arrested on the charge of attempted murder. The strong and peculiar odour of the soup was so marked that Corporals Querelle and Rouanet ordered the troopers not to touch it, and called in the Surgeon-Major. The latter filled two glass jars with the soup and sent them to the Military Hospital, asking the Pharmacist-Major, M. Thomassin, to analyze the soup chemically, and in due course the pharmacist reported that had the soldiers partaken of it they would have swallowed a great deal more cyanide than was necessary to cause their death.

TRADE-MARK INFRINGEMENT.—An interesting case of trade-mark infringement was heard at Dijon a few days ago, the matter in litigation being the imitation of pharmaceutical products. It consisted of an appeal by M. Ribaud, pharmacist, of Lyons, and M. Alezard, pharmacist, of Rheims, who were tried in May 1907, at Lyons, for trade-mark infringement and sentenced, with three other defendants, to three months' imprisonment, 3,000f. (120*l.*) damages, and costs. The Appeal Judges at Dijon confirmed the judgment at Lyons, except that the terms of imprisonment were reduced, but a decision given at Lyons, that the imitation pharmaceutical products complained of should be destroyed, was revoked.

CO-OPERATIVE PHARMACIES.—The Mutual Aid Society, of Limoges, recently started a co-operative pharmacy for supplying its members with inoffensive remedies, for which prescriptions are not required, at a little over cost price. The Society hoped to escape taxes for the pharmacy, as it was on co-operative lines, but have been ordered to pay after the case has been taken to the highest court, the Council of State. The question turned on a technicality—that is to say, if the members could group their orders for the purpose of buying cheaply, they escape the taxes, but as "grouping" is evidently impossible for remedies, which mostly have to be prepared in advance, the taxes must be paid. In case of illness, members receive their medicines free, for which they pay a subscription of 6f. per annum.

APIOL.—The products sold under this name in France vary much in price and quality: the sp. gr., for instance, ranging from 1.000 to 1.100. These differences allow of the addition of oils, as much as 70 per cent. of castor oil being sometimes added. The recent White Cross Congress, while declining to adopt the Codex product (crystalized apiol), laid down a standard of purity after a discussion between Professors Perrot and Lutz, Messrs. Schamelhout (Brussels), Dufour (Leipzig), and Chevallier, Dumesnil, Mathurin and Oudin. The general characteristics of the three liquid products obtained from parsley-seeds—green, white and yellow apiols—were stated as follows:—

These products are liquid, but never viscous; they all possess a very special odour. They cannot be ignited by a lighted match unless first slightly heated. They should be entirely soluble in alcohol of 90° (addition of fixed oils castor oil and others), and in ether (addition of parsley butter). They are also soluble in chloroform, acetone, benzine, glacial acetic acid, etc. Exposed to the air, they should neither lose weight nor become troubled (addition of alcohol). Cooled to + 5° C., they should not solidify, nor should a granular deposit be formed (addition of parsley butter). The density of liquid apiols is very variable, but should in no case be less than 1.090 (addition of fatty oils—castor oil, for example).

"ODOL" IN FRANCE.—Although, as mentioned in the *C. & D.* recently, Odol was only introduced in France about two years ago, the Odol dentifrice has secured a large share of public favour in that country. When a few days ago I saw the Paris representative of the Odol Chemical Works, he remarked with satisfaction that this gratifying result was largely owing to the fact that French pharmacists had appreciated the article and given it their support. For some time past large window-displays of Odol have been a prominent feature of French pharmacies, and this, coupled with extensive advertising, has spelt success. This result may be considered the greater achievement when it is borne in mind that French people are past masters in anything connected with either perfumery or the palate, and France may, to a great extent, be considered as the home of liquid dentifrices, a greater variety being produced here than in any other country, and many of them certainly have a claim to popularity. The Odol Co. have already received a great number of flattering testimonials from French celebrities in every sphere of life, including the medical and dental professions, and also the most popular members of the theatrical profession. In course of conversation regarding Odol, a prominent dentist here remarked to me that he considered the company were doing in England a real service to the community in offering to supply tables of hygienic rules regarding teeth to schools free of charge. He said that he had noticed there, among the middle-classes, children suffering both in health and appearance by what to Americans seems extraordinary neglect. The same dentist quoted the case of an English public school for girls noted for its education, both physical and mental, but where the teeth of some of the mistresses and housekeepers are a deplorable example to the pupils.

Colonial and Foreign News.

QUININE DISTRIBUTION IN MAURITIUS.—Quinine was distributed free from thirty-five depôts established in the more malarious localities and from the public dispensaries. Arrangements were also made to permit of Government servants receiving salary at the rate of 720rs. and under being supplied with the drug free of charge from the hospitals and dispensaries.

OPIUM IN NEW GUINEA.—The German Government have granted to the Jaliut Company (upon terms not stated) the exclusive right of importing opium into this colony. The regulations for its sale, which have been drawn up by the Imperial Health Bureau at Berlin, state that the sale of crude opium is prohibited, while prepared may only be sold to the Chinese on medical prescription. Medical men and druggists importing medicines containing opium are not affected by these regulations, provided they do not exceed strictly necessary quantities.

HUNGARY can now boast of being the first country with the monopoly system to possess a woman *concessionnaire*, as the Minister of the Interior has granted the concession of the pharmacy in Szilágy-Nagyfalu to Magistra Helene Halmágyi. This has caused great surprise among the older pharmacists on the waiting list, as this lady completed her apprenticeship only a short time ago. An interesting question is also raised in this connection: if she marries and dies before her husband, will he be entitled to enjoy the benefit resulting from the right otherwise granted to the widow of a *concessionnaire* to have the pharmacy managed on his behalf?

POPULARISING TRADE-MARKS.—The "Verband der Fabrikanten von Markenartikeln," or association of manufacturers of trade-marked articles, has been considering a proposal laid before it by the German Pharmaceutical Association that all products of members of the former association should be distinguished by a special label. The Verband regards the introduction of such distinctions as inadvisable, the primary object of the association being to combat dishonest competition and price-cutting. Some of the members have, however, voluntarily introduced a Verband label on their preparations, and it is proposed to issue a list of the trade-marks belonging to the members.

South African News.

(From the "C. & D." Correspondents.)

Cape Colony.

Registration.—Albert Ross (Great Britain) has been licensed to practise as a chemist and druggist in Cape Colony.

Cape Pharmacy Board Examination.—At the half-yearly examination, held at Cape Town on November 10 and 11, of six candidates, only one—Mr. De Wit, Stellenbosch—was successful.

Educational.—At the South African College prize distribution the Superintendent reported that eight students had taken the evening classes in "botany for chemists," with an average attendance of 78 per cent. Mr. L. Drubin was awarded a prize and Mr. Rollnick a certificate.

Postponed Exhibition.—It has been finally decided to abandon the idea of holding a Colonial Exhibition in Cape Town next year to celebrate the Union of South Africa. At a meeting of the guarantors, held on November 4, it was decided to organise a South African Exhibition, to be held in Cape Town in 1912, and for this purpose an attempt is being made to keep the present committee going.

Agents' Licences.—The Bill to Amend the Stamps and Licences Act was the subject of several hours' discussion in the House of Assembly during the Committee stage on November 11. Mr. Baxter asked the Premier for an interpretation of the words "continuously resident" in Clause 2, Section 1, Subsection C (*C. & D.*, December 4, p. 849). He pointed out that a foreign traveller in the course of his business had to visit his principals periodically. An amendment by the Attorney-General that the word "continuously" be omitted was carried, and the clause then passed. A proposal by Mr. Baxter to delete the requirement "that a licence be granted to an individual only, and not to a company or firm," was rejected. An amendment by the same gentleman to substitute the words "any of the Colonies of British South Africa" for the words "this Colony" in the clause defining "agent for a foreign firm" was also negatived. The Premier pointed out that their object was to protect localities, and if the last amendment were carried traders would operate from Natal to the detriment of the Cape Colony. The Bill as amended was reported for third reading on November 18.

Orange River Colony.

Medical and Pharmacy Council.—The monthly meeting took place at the Public Health Offices, Bloemfontein, on November 12, with Dr. A. B. Ward in the chair. There were also present Drs. O. Johnson, Bidwell, Pratt-Yule, De Kock, and Swift, Messrs. Jeffery, Redpath, Main, S. S. Hewitt, and R. C. Streeten (Secretary). The Secretary reported that Mr. Percy Rive had been registered as a chemist and druggist. After the President had welcomed Mr. Main as new member in place of Mr. Dinwoodie (resigned), Dr. Pratt-Yule moved: "That the Council consider and take such action as may be necessary to promote common medical legislation on the establishment of, and throughout, the Union of South Africa." He thought the Council should appoint a committee to draw up a draft Medical Act to form the basis of discussion at a conference of medical men representative of each Colony. Mr. S. S. Hewitt stated that chemists had not favoured for years a combined medical and pharmacy council. He feared that under the present scheme chemists would be left in the lurch, and he considered that the medical section should aid in convening a conference for chemists also. Mr. Main, the newly-appointed pharmaceutical member, thought the chemists could look after themselves. The President said that undoubtedly the two sections would be separated in the future. To the suggestion that the medical conference should include the pharmaceutical section the President said that the two matters were entirely separate. During the discussion Mr. Hewitt pointed out that the Council was not only a Medical but a Pharmacy Council, and that if the Council take the first steps in initiating new legislation which would mean the tearing up of all the present laws, then it was the duty of the Council to safeguard the interests of chemists equally as much as the interests of medical practitioners. Dr. Pratt-Yule agreed that this was the case, and he thought that if any funds of the Council were to be expended in holding a medical conference then the chemists had a perfect right to demand the expenditure of an equal sum on a pharmaceutical conference. On Dr. Pratt-Yule moving that the Government be approached in regard to the holding of a medical conference at Bloemfontein, the amendment by Mr. Hewitt, asking for a fortnight's adjournment in order for the chemists' committee to consider the matter, was agreed to with only one dissentient (Mr. Main). [In connection with these proposals, a general meeting of O.R.C. chemists was called by the pharmaceutical members of the Council on November 18.] A motion by Mr. Redpath (dental member)—"That medical men should be restricted in practising dentistry to (1) extraction of teeth, and (2) temporary dressings"—was postponed. A letter was read from the O.R.C. Dental Association which embodied the resolution.

Transvaal.

Methylated Spirit.—With reference to the rebate of duty allowed on plain spirits, the produce of the Union, methylated in the Transvaal, a Government notice (dated October 26) notifies that the following formula for the methylation of spirits is to be observed. Methylated spirits should be plain spirit, not less than 50 per cent. overproof, and mixed in the following proportions: Rectified spirit, 97.5; methyl alcohol (wood spirit), 2; pyridine, 0.5.

Cape Stamp and Licences Bill.

The Cape House of Assembly on November 11 devoted several hours to discussion in Committee of the new proposals under this Bill of nineteen clauses introduced by the Premier (Mr. Merriman). The first five clauses treat with licences, the next eight (Nos. 6 to 13 inclusive) deal with medicine-stamps, while the remainder refer to stamps on documents. The provisions are here outlined:—

Clause 6 defines the new scale of stamping values, and is practically in the words of the Premier's notice of motion (*C. & D.*, November 20, p. 772). Medicines not exceeding 1*s.* 6*d.* require a 2*d.* stamp, for every additional 6*d.* or part thereof a stamp of 1*d.*

Clause 7 contains in Sub-section 1 the penalty for non-compliance, and is exceedingly drastic.

> "A fine not exceeding 50*l.*, or in default imprisonment not exceeding six months with or without hard labour, or to both such fine and imprisonment"

is to be the lot of either the intentional or unintentional offender.

Sub-clause 2 of the same clause sought to make "the owner or owners, or in the case of a company or firm the person or persons controlling the retail section, liable to the above penalties, as well as the actual offender." A storm of protests from members was raised by this sub-section. Mr. Alexander pointed out that under certain conditions a fine of 150*l.* could be levied for offence. Eventually an amendment "limiting the charge to the person who was actually managing the business at the time of the offence" was agreed to.

Sub-clause 3 of Clause 7 relates to fixing the retail selling-price of a medicine for the purpose of a prosecution.

> (*a*) In the case of imported medicines a certificate signed by the Assistant Treasurer.
>
> (*b*) And in the case of locally manufactured medicines a certificate signed by the Resident Magistrate for such district.

Clause 8 adds yet another to the list of definitions for the bewilderment of the chemist—

> "A medicine shall be construed as including any substance capable of exercising or intended or advertised or professed expressly or by implication to exercise, when applied externally or internally, any curative, alleviative, or preventive effect in any disease, disorder, affection, or deviation in health, or function of or injury to man or animals; and shall include any toilet-article which makes any of the above claims."

The exemptions allowed by Government are dips and ordinary disinfectants. Amendments by Dr. Hewat were accepted which exempt also "any food or nutritive substance for the use of children or invalids (if declared by Government notice in the 'Gazette'), or any mineral-water, whether natural or artificial," and also (on the Premier's amendment) "so-called Dutch medicines."

A new set of definitions for "patent and proprietary medicines" is also provided, as follows:

(*a*) Any medicine the subject-matter of any current letters patent granted in the Colony or elsewhere, and any medicine to which the word "patent" is in any manner applied, whether protected or not.

(*b*) Any medicine purporting by the use of the possessive or otherwise to be a "proprietary medicine" (*e.g.*, "——'s Chlorodyne," "——'s Citrate of Magnesia," "——'s Gregory Powder."

(*c*) Any medicine bearing any distinctive brand, mark, coat of arms, or device, whether or not the same be registered according to or protected by law.

(*d*) Any medicine advertised or sold under a distinctive or fancy word, name, title, or description used exclusively by the manufacturers or vendor and applied to the particular medicine only, or to other preparations, manufactures, or articles manufactured or sold by him, whether he has any legal right to the exclusive use of such word, name, title, or description or not

(*e*) Any medicine prepared, or purporting or professed to have been prepared, from some secret formula, or by some secret or occult art or process (whether or not the formula be secret).

Clause 9, as amended, defines "exposed for sale" as follows:

"As soon as any patent or proprietary medicine is brought into any shop in which retail transactions take place, but not as long as it remains in any portion of retail premises set apart for dispensing or storing purposes, and is there being kept *bonâ fide* for the purposes of dispensing or storing only."

Clause 10 states:

"No stamp shall be required for any patent or proprietary medicine dispensed upon a *bonâ fide* medical prescription in such quantities as are set forth in such prescription."

Clauses 11 and 12 are penal:

"The obstructing of any officer of Revenue on his own authority, or any other official being authorised in writing by the Assistant Treasurer, a Magistrate, Civil Commissioner, or Chief of Police in any district who enters retail premises to see that the provisions of the Act are complied with renders the offender liable to a fine not exceeding 100*l.*, or in default to twelve months' imprisonment with or without hard labour, or to both such fine and imprisonment."

A similar penalty is fixed for using defaced or forged stamps by Clause 12.

Clause 12 gives a Minister power from time to time to publish in the Government "Gazette" the names or classes of medicines specially exempted by the Act.

It is probable that further amendments will be moved from the Government side requiring the wholesalers or importers to fix the stamp, but this point, though referred to in the debate, was not settled at the time the mail left.

Agri-Horticultural Licences.

Poisons and Pharmacy Act, Sec. 2.

Notice of Application.

WARRINGTON. Fredk. Wm. Walters, seedsman, 32 Horsemarket Street.

Consideration of Applications.

KENDAL.—The Town Council had before them on December 1 a letter from the Privy Council enclosing a copy of a petition sent by the local Chemists' Association in reference to the granting of applications, and asking the Council's observations on the matter. On the motion of Alderman Edmondson, who said the Council had dealt with the matter according to the best of their judgment, it was decided to reply that the Council had no observations to make.

WESTMORLAND.—The County Council has granted the application of Mr. Miles Moorhouse Dobson. A copy of the petition sent to the Privy Council by the Cumberland and Westmorland Chemists' Association regarding the issue of licences was also considered by the Council. It was decided to inform the Privy Council that the County Council had no observations to make regarding the subject.

MANGROVE-BARK INDUSTRY.—A concession has been granted to an influential company to collect mangrove-bark in the Govuro district of the Sabi, Portuguese East Africa. The company expects to export 400 tons during the first two months, and to increase this amount until 500 tons per month has been attained. Samples of red bark from that district are stated to be of exceptionally good quality and extremely valuable for tanning-purposes.

Our American Letter.

By an Ethical Pharmacist.

Counter-prescribing.—Eight pharmacists in the city of Brooklyn have recently been arrested and convicted for counter-prescribing. It was charged that they exceeded their prerogatives as chemists and indulged in what really amounted to the practice of medicine, diagnosing ailments and prescribing remedies, as well as selling them. In one or two cases the sale of abortefacients was involved, and New York State happens to have a pretty severe law against this sort of thing. The cases were brought at the instance of the County Medical Society, and the victims were all fined in amounts ranging between $25 and $50.

Soda-fountain Drinks containing habit-forming drugs are being pounced upon now by the Federal authorities. The manufacturers of a product called Koca-Nola were recently haled into court and fined $100, the charge being that the article contained cocaine without the fact being stated on the label. There was a further charge that the label dishonestly contained the word "dopeless." Coca-Cola, another soda drink, is now up on the carpet under the charge of containing caffeine, which is asserted by the Government authorities to be injurious to the public health. It looks, though, as if the Government would fail to sustain its contention in the Coca-Cola case.

The Company Pharmacy Movement in this country is proceeding apace. I spoke recently of the formation of two new companies with large ambitions—the Laner Drug Co. and the United Drug Consumers' Co., the first of these operating under the ægis of the American Tobacco Trust. In the meantime other companies are extending their operations. The Hall & Lyon Co., of Providence, R.I., recently added the thirteenth store to its group of pharmacies throughout southern New England. The Cahoon-Lyon Co., of Buffalo, owned by the same group of stockholders, has purchased one of the best stands in Buffalo, while the William B. Riker & Son Co., of New York and Boston, is either purchasing or opening a new store every couple of months or so.

The American Druggists' Syndicate held its annual meeting in New York recently, and a most prosperous year was reported upon. This co-operative company now has over 10,000 pharmacists as its stockholders. The net earnings for the year were announced to be nearly $200,000 (40,000*l.*). It was a great feather in the cap of the A.D.S. that the N.A.R.D., at the annual meeting held two or three months ago in Louisville, Ky., approved the principle of co-operative buying—a step which it had refrained from taking before out of consideration for the feeling of the wholesalers. Indeed, the A.D.S. President (Mr. C. H. Huhn, of Minneapolis) was taken over by the N.A.R.D. and made its President also. It was reported at the A.D.S. meeting that a soap-plant had been purchased and operated during the year, and also that the Aseptic Products Co. had been successfully floated. The latter is an auxiliary concern manufacturing a line of surgical dressings, plasters, absorbent cotton, and the like.

U.S.P.—Many preparations are being made just now for the Pharmacopœia Convention to be held next May in Washington. It has been suddenly discovered that, according to the constitution of the Convention, the N.A.R.D. and the N.W.D.A. have no power to send delegates. Only three national Associations are specifically mentioned—the American Pharmaceutical Association, the American Medical Association, and the American Chemical Society. The N.A.R.D. had not been created when the Pharmacopœia Convention was incorporated ten years ago, while the N.W.D.A. (wholesale druggists) had never exhibited any particular interest in Pharmacopœia revision. These two great Associations, however, and also others who are without the franchise, are now very anxious to send delegates to Washington, and are seeking appropriate amendment of the constitution. It looks as though the Convention itself would be very largely attended, and the representation a very wide and intelligent one. Pharmacopœia revision is now a matter of supreme importance in view of the fact that the U.S.P. is a legal standard under the Federal and State Food and Drug Acts.

A WHELPLEY ANNIVERSARY.—On November 17 was celebrated Dr. H. M. Whelpley's twenty-fifth anniversary as a teacher at St. Louis College of Pharmacy. At the College enlogistic speeches were made regarding Dr. Whelpley, and his portrait was presented to that institution. Later in the day a banquet was held at Faust's Cabin, at which a long list of toasts and "surprises" was arranged. From the reports we have received it is evident that the anniversary was fittingly commemorated.

Legal Reports.

High Court Cases.

Linseed-meal.

In the King's Bench Division of the Dublin High Court on December 6, the Department of Agriculture and Technical Instruction for Ireland appealed against the decision of the Belfast Magistrates in regard to the action against Messrs. A. & D. Porter under the Foodstuffs Adulteration Act. Messrs. Porter were summoned for having sold linseed-cake meal for a cattle-food without stating the percentages of oil and albuminoids (*C. & D.*, May 22, p. 770). The Magistrates dismissed the case on the technical point that the consent of the Department should have been obtained before the proceedings were instituted. After the case had been argued, the Court held that the Magistrates were right in dismissing the case without prejudice in the circumstances, and directed that the Department should pay the defendants' costs.

A Sponge Transaction.

In our issue of June 26, p. 971, we reported the result of an action before Lord Salvesen in the Court of Session, Edinburgh, in which the International Sponge Co., Ltd., 45 Houndsditch, London, successfully sued A. Watt & Sons, Edinburgh, for 314*l.*, the value of three cases of sponges bought from Henry Cohen, plaintiff's traveller, which defendant paid for by cheque to Cohen at the time of delivery. Cohen appropriated the money. His Lordship held that until the sale was homologated by the plaintiffs sending an invoice it was not binding upon them. Messrs. Watt appealed to the second division of the Court, before the Lord Justice-Clerk and Lords Low and Ardwall, and the judgment of the Court was given on December 2, recalling the interlocutor of Lord Salvesen, so that Messrs. Watt were assoilzied with expenses. Lord Low gave the principal judgment, and was of opinion that there was no ground for holding that there was not a completed contract or that the contract which was made was not binding until it had been homologated by the pursuers.

Saccharin Litigation.

In the Chancery Division of the High Court, London, on December 7, the actions of the Saccharin Corporation, Ltd., *v.* Denison and the Same *v.* Bloomer came before Mr. Justice Joyce on motions for judgment in default of appearance. Mr. Colefax, for the Corporation, asked for an injunction restraining the defendants from infringing plaintiffs' letters patent by importing from abroad and from making, selling, offering for sale, or supplying in this realm saccharin or any other compound which was an infringement of plaintiffs' patent. Counsel also asked for an inquiry as to the damage sustained by the Corporation through the infringement, an order for delivery up on oath of the infringing article and for the payment of the costs up to the trial. The defendants did not appear and his Lordship made the orders asked for.

In the Dublin Courts, before Mr. Justice Barton, the case of the Saccharin Corporation against McChree and another (Jacks Mineral Water Co.) was heard last week. The action was tried last January (*C. & D.* Supplement, January 30), when the Court granted an order restraining the defendant, a chemist in Belfast, from infringing the plaintiffs' letters patent in the manufacture of saccharin. Mr. John Donaldson now objected to a portion of the order of restraint made by his Lordship, as it would involve his clients in costs for which he submitted they were not liable. The action was brought for infringement in respect of seven distinct patents, but his Lordship granted an injunction limited to the two patents as to which evidence was given, adding that the plaintiffs had acted reasonably, and were justified in bringing the action against the defendants in respect of the remaining patents. The result was that the taxing master would hold the defendants responsible for costs in respect of the seven patents. —Mr. George H. Brett, for the plaintiffs, opposed any variation in the order, but Mr. Justice Barton said he would vary the order by stating that the plaintiffs acted reasonably down to July 31, 1908, as regarded the five other patents.

Pharmacy Acts (Ireland).

Druggist Dispensing.

At the Belfast Police Court on December 7, Mr. Hugh Marshall, registered druggist, 6 Edlingham Street, Belfast, was summoned by the Pharmaceutical Society of Ireland for dispensing and selling a medical prescription at 2 York Road, Belfast, contrary to the provisions of Section 30 of the Pharmacy (Ireland) Act, 1875, he not being a person properly qualified. Mr. Jos. Donnelly appeared for the complainants, and the defendant was represented by Mr. T. J. Campbell (instructed by Mr. Brady). Mr. Campbell did not call any witnesses for the defence. He contended that the sale was by Mr. Marshall for Messrs. Marshall & Co., Ltd., and not for himself. The Magistrates imposed a fine of 5*l.*, and costs.

Unqualified Manager.

At the Belfast Summons Court on December 6, Mr. William Duggan registered druggist, was prosecuted at the instance of the Pharmaceutical Society for having on October 26 kept open shop for the sale of poisons without having a qualified man in management. Mr. Jos. Donnelly prosecuted on behalf of the Society, and Mr. Lewis defended. Mr. Donnelly said that Mr. Duggan had two shops, one of which was in Albert Bridge Road. On October 26 defendant was not personally—nor had he a properly qualified assistant—in charge of these premises. On the date in question a woman was supplied with a quantity of oxalic acid and some laudanum. The Society's inspector met the woman at the door, and afterwards went in and had a conversation with the young man in charge. The latter was not qualified to manage the premises, and the defendant himself was not there. The Society, said Mr. Donnelly, considered this a very grave offence. Mr. Lewis, for the defence, stated that the defendant obtained these premises in July. At that time the young man in question had been there for some six or seven years, and was almost a qualified man. The defendant had warned this man not to sell poison on any account until he was fully qualified. When defendant found that his orders had been disobeyed he at once dismissed this man, and now there was a fully qualified man in charge of this shop. If ever there was a case, concluded Mr. Lewis, which might be met with a nominal penalty it was this one. A fine of 20*s.*, and 20*s.* costs, was inflicted.

County Court Cases.

Hardman's Pills.

At Bury (Lancs) County Court last week, James Hardman, pill and ointment manufacturer, 287 Rochdale Road, Bury, obtained an injunction against his son, Robert Hardman, 2A Cateaton Street, Bury, and 50*l.* damages, for wrongfully representing certain pills and ointment as being of his manufacture, and labelling them exactly as the original.

Advertising Account.

At the Marylebone County Court on December 6, Judge Sir W. Lucius Selfe ordered F. G. Turner, chemist and druggist, 1 Prince's Road, Kilburn, to pay 10*s.* a month of an advertising account, which he had incurred to the "Grocers' Review." His Honour refused the plaintiffs' request for a committal order.

Credit by a Co-operative Society.

At the Kilmarnock Sheriff Court last week Sheriff Mackenzie gave judgment in an action by the Kilmarnock Equitable Co-operative Society, Ltd., against R. Wyllie, for payment of goods supplied at one of their branches. The defence was that the constitution of the society requires that goods should be sold for ready money, therefore the transactions with the defender were *ultra vires*. Sheriff Mackenzie overruled that objection on the ground that while Rule 22 supported defender's contention, other rules show that debt might be due to the Society by members, thus contemplating credit under certain circumstances. Besides, the defender was one of the parties to the contract, and he could not plead his own action to excuse him from paying what he was entitled to pay.

Chemist and Chorister.

At Marylebone County Court on December 6, Judge Sir W. Lucius Selfe made an order for the payment of 5*s.* a month on a judgment summons at the instance of Allen J. Hall, chemist and druggist, Belsize Road, Kilburn, against Enrico Altonio, described as a chorister, 66 Belsize Road. It transpired in the course of the hearing that the defendant carries on business in a private house, also that he is paid for singing in two choirs.

Doctors' Drug-bills.

In the Shoreditch County Court, on December 7, before Judge Smyly, K.C., Messrs. C. J. Hewlett and Son, Ltd., 35 Charlotte Street, Shoreditch, sued Dr. D. G. G. Macdonald, 44 Rodney Road, Walworth, for 4*l.* 15*s.* 2*d.* for drugs supplied. The defendant did not appear, and his Honour said it was a funny thing how many doctors let their bills for drugs run to judgment summonses. He supposed they could not get the money from the patients, so could not pay. There would be an order for ten days committal in default of paying half in a month and half in two months.

Bankruptcy Reports.

Re Albert Edward Bird, 77 Vicarage Road, Watford, Chemist and Druggist.—The Official Receiver has issued his final report to the creditors in this case, dealing with the position of the estate at the date of his application for release as trustee. The accounts show that the assets have realised 84*l.* 15*s.* 3*d.*, or, after paying out the execution which had been levied before the date of the receiving order, 61*l.* 5*s.* net. The costs, charges, and expenses of administration have amounted to 26*l.* 4*s.* 6*d.*; there has been paid to preference creditors 3*l.* 0*s.* 4*d.*, and a first and final dividend of 1*s.* 1½*d.* in the pound, absorbing 31*l.* 13*s.*, and leaving a balance in hand of 7*s.* 2*d.* Although debtor returns his liabilities at 820*l.*, creditors to the extent of 552*l.* only proved against the estate. The debtor has not applied for his discharge.

Re Alfred Isaac Levy, late of 67 Mansell Street, Aldgate, Sponge-merchant. At the London Bankruptcy Court on December 3, an application for an order of discharge was made to Mr. Registrar Brougham on behalf of this bankrupt, who failed last June, with liabilities 1,101*l.* 11*s.* 4*d.* and assets that have realised 4*l.* 3*s.* Mr. G. W. Chapman, Official Receiver, reported a previous failure against the bankrupt in November 1901, when trading as a sponge merchant under the style of J. H. Morrison & Co. He recommenced business in November 1907 with 20*l.* capital, and traded until March 1909, when the whole of his stock and effects were sold under a distress for rent, and the business came to an end. The present failure was attributed to want of capital, bad trade and loss of 350*l.* in respect of money advanced and paid on behalf of the bankrupt's father-in-law on accommodation bills. The discharge was suspended on statutory grounds for two years and a half.

Gazette.

Partnerships Dissolved.

Anderson, W. M. A., Fenner, R., and Wirgman, C. W., Birchin Lane, London, E.C., physicians and surgeons, under the style of Anderson, Fenner & Wirgman; so far as regards W. M. A. Anderson.

Parsons, C. O., and Atkins, F. D., physicians, etc., Dore & Totley, Derbyshire, under the style of Parsons & Atkins.

The Bankruptcy Acts, 1883 and 1890.

Receiving Order.

Barton-Wright, Edward William, Albemarle Street, Piccadilly, London, W., therapeutic specialist.

Company Notices.

Springfield Chemical Co., Ltd. All claims to be sent in before January 15, 1910, to the Liquidator, Mr. Thomas Smethurst, 26 Pall Mall, Manchester.

Forder's, Ltd. (P.C.).—Capital 2,550*l.*, in 1*l.* shares. Objects: To acquire the business of C. J. Forder & Co., manufacturers of and dealers in glass, bottles, jars, tubes, plate, sheet, rolled and stained glass, glass signs, etc. C. J. Forder is first managing director. R.O., 60 Poulton Road, Seacombe, Ches.

New Companies and Company News.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

K. C. Soap and Polish Co. (1909), Ltd. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. The subscribers are V. G. Tipper, secretary, and R. Attwell, clerk. R.O., 103 Cheapside, E.C.

M. J. Fecher, Ltd. (P.C.).—Capital 500*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturers of and dealers in and agents for pharmaceutical, medicinal, chemical, surgical, proprietary, and industrial specialities, ointments, pills, tabloids, etc. The first directors are Emma Rand and M. J. Fecher (managing director), "Boxmoor," Enfield, N.

Williams Borough Pharmacy, Ltd. (P.C.).—Capital 2,000*l.*, in 1*l.* shares. Objects: To acquire the business carried on by J. H. Williams at the Borough Pharmacy, 35 Commercial Road, Bournemouth, and to carry on the business of chemists, druggists, sundriesmen, photographic material dealers, etc. The first director is J. H. Williams, Bournemouth, pharmaceutical chemist, who and Miss M. J. Williams, Bournemouth, are the subscribers. R.O., 35 Commercial Road, Bournemouth.

"Rocla" Natural Tonic Co., Ltd.—Capital 12,500*l.*, in 1*l.* shares. Objects: To carry on the business of importers and exporters of and dealers in natural, mineral, tonic, curative, spring, medicinal, mineral, and aërated waters and other drinks, licensed victuallers, brewers, distillers, restaurant keepers, druggists, etc., and to acquire the business carried on at 69 Edgware Road, London, as the "Rocla" Natural Tonic Co., Edgware Road, W. E. Colato is permanent governing director. R.O., 69 Edgware Road, W.

Charles Lowe & Co., Ltd. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Objects: To take over the business of dispensing and general chemist, druggist, patent and proprietary medicine vendor, and proprietor of medical, chemical, herbal, optical, and photographic stores generally carried on by W. C. Mence at 1 Claremont Road, Surbiton, as Charles Lowe & Co. The first subscribers and directors are: W. C. Mence, dental surgeon; F. Harvey, Pharmacist; and A. C. Mence.

G. B. Kent & Sons, Ltd.—The directors have declared the usual dividend at the rate of 5½ per cent. per annum upon the preference shares for the half-year ending September 30.

Ilford, Ltd.—The annual general meeting of shareholders was held at Winchester House, Old Broad Street, London, E.C., on December 7. Colonel Ivor Phillipps, M.P., who presided, in moving the adoption of the report and accounts (*C. & D.*, December 4, p. 851), said that the goodwill had been reduced by 6,000*l.*, and now stands at 216,000*l.* The actual market value of investments was 86,617*l.* in October last, and as they are in easily realisable securities, that sum was available at any time if needed for development of the business. The Chairman stated that the constant cutting of prices was even more violent than before, much to the damage of the shareholders' property.

Cupal, Ltd.—A list of allotments made between October 26 and November 24, 1909, has been filed; 115 preferred and 1,355 ordinary shares have been allotted, subject to payment in cash; 17,500 have been allotted, credited as fully paid, as consideration for the purchase of the business and assets of Woolleys, Ltd. The capital is 25,000*l.*, in 1*l.* shares (20,000 ordinary and 5,000 preferred). The allottees include: W. Woolley, Blackburn; L. S. Selle, Hull; G. F. Woolley, Blackburn; Misses Eliza and Ellen Woolley, Blackburn; F. S. Rowland, Wrexham; J. C. Robertson, Glasgow; A. Bennett, Hull; W. Sumner, Ashby-de-la-Zouch; A. S. Snowden, Hull; W. Thornton, Blaenavon; T. H. Prichard, Abertillery; E. Poole, Cardiff; D. W. Davies, Porth; J. W. Richards, Tonypandy; J. J. Spilman, Hull; G. Thomson, Glasgow; G. V. Wright, Edinburgh; D. M. Forsyth, Edinburgh; F. H. Davies, Bargoed, Glam.; R. S. Waters, Wick, N.B.; A. L. Williams, Pembroke Dock.

Idris & Co., Ltd.—The annual report of the directors for the year ended October 31, 1909, states that they greatly regret to report a loss of 1,960*l.* 6*s.* 2*d.*, after paying debenture interest 4,000*l.* and writing off full depreciations as in previous years. The debenture stock stands at 100,000*l.*, and other capital issued at 206,000*l.* The unsatisfactory result of the year's trading is due chiefly to the disastrous season, which is the worst experienced (the directors say) since the business was established. The profit in the mineral-water trade is made during the summer months, and as this year there was no summer weather, excepting for a very brief period at the end of the season, it was quite impossible to

make a profit during the months when it has usually been secured. In addition to adverse weather conditions, competition has been very keen. Owing to the good profits made in former years, many manufacturers were drawn into the industry, leading, unfortunately, to ruinous competition, many manufacturers quoting unremunerative prices, and injuring the consumption of mineral waters by selling waters of inferior quality. Companies adopting these methods cannot, in the opinion of the directors, continue trading for many years, but in the meantime the effect on the mineral-water trade generally is very injurious. The directors are giving the present state of affairs anxious consideration. The retiring directors, Mr. W. Adpar Jones and Mr. William T. W. Idris, offer themselves for re-election.

UNITED CHEMISTS' ASSOCIATION, LTD.—A list of allotments made between November 3 and 30, 1909, has been filed, and from this it appears that 490 founders' and one ordinary share have been allotted, subject to payment in cash, and 3*l.* 10*s.* per share has been paid or is due and payable thereon. The nominal capital of the company is 15,000*l.*, in 5*l.* shares (500 founders' and the remainder ordinary). The allottees (all described as pharmacists) are as follows:

H. Miller, Cheltenham; C. C. H. Cadge, Bingham, Notts; J. G. Jackson, Sheffield; L. M. Parry, Liverpool; A. E. Bolshaw, Hastings; W. H. Walton, Hull; G. F. Bushby, Levenshulme; W. S. Glass, Edinburgh; S. Cook, Nottingham; H. D. Kelf, Bromley; J. G. J. Goddard, Barrow-in-Furness; C. J. Willis, Cheltenham; J. Day, Dewsbury; W. Jenkinson, Edinburgh; J. H. Denny, Norwich; A. V. Aston, Tarporley, Cheshire; W. H. Thorn, Gloucester; J. P. L. D. Nowell, Harlesden, N.W.; H. G. Letherland, Nottingham; T. D. Sneath, Grimsby; J. S. B. Heddle, Edinburgh; R. Dixon, Sheffield; W. H. Williams, Buxton; H. Payne, Maidstone; F. W. Goodess, Leicester; S. H. Platten, Nottingham; G. A. Dance, Kensal Rise; W. J. Axe, Liverpool; J. E. Hudson, Sheerness-on-Sea; J. G. Twigg, Withernsea; R. J. Watson, Caistor, Lincs; F. Johnson, Chester; W. Johnson, Birmingham; D. N. Wylie, Edinburgh; J. H. Hart, Partick; J. Davies, Llanelly; F. Cherry, Walton-on-Thames; D. Evans, New Eltham; W. T. Thomas, Gorseinon, Glam.; J. A. Symonds, Ipswich; H. Buckingham, Aston Manor; H. S. Peirson, New Brighton; R. W. Broomfield, St. Bees; R. W. Brownlow, Melton Mowbray; W. Elmitt, Derby; R. Broadhead, Batley; W. E. Gaze, Chingford; J. Bamforth, Warrington; C. A. Jones, Reddish-on-Stockport; W. B. Botham, Bournemouth; G. S. Perrett, Bexhill-on-Sea; J. H. Thursfield, Kettering; E. Wooldridge, Cradley Heath; H. T. Summers, Heckington; H. S. Durbin, Surbiton; J. W. Normansell, Calne; T. Freeman, Nottingham; G. Whitfield, Scarborough; H. H. Maidment, Faringdon; P. Carr, Sheffield; J. T. Appleton, Sheffield; J. W. Sewell, Fulham; A. H. Nash, Market Harborough; H. G. Williams, Sheffield; W. B. Alexander, Hitchin; F. Hadfield, Milnsbridge, Huddersfield; J. T. Rayson, Nottingham; R. T. Christopher, Bradford-on-Avon; F. Cook, Warminster; G. Hellens, Totnes; F. F. Cox, Plymouth; F. H. Reed, Ilfracombe; G. Brisley, Bexhill; G. H. Gregory, Aldeburgh; J. A. Bayes, Fenny Stratford; F. W. Goodman, Hastings; C. B. Thacker, Saffron Walden; R. F. Roper, Plymouth; W. H. Borcham, St. Margarets-on-Thames; W. F. Crowther, Mayfield, Sussex; W. H. Broomfield, Lyndhurst; T. B. Corufoot, Herne Bay; J. Ricketts, St. Wells; W. Craug, Ilfracombe; C. H. Thornton, Exmouth; E. W. Smith, Sheffield; E. S. Seaborne, Sheffield; E. J. Thompson, Saltley; J. S. Oswald, Sheffield; T. H. Foden, King's Heath; F. Medley, Sheffield; R. G. Bryan, Liverpool; J. H. Williams, Sheffield; J. E. Alcock, Sheffield; D. Harries, Cardiff; W. Sumner, Ashby-de-la-Zouch; J. Chadwick, Sheffield; C. A. Gardner, Sheffield; H. E. Skyrme, Hastings; S. H. Venables, Gorleston-on-Sea; D. Hughes, Mold; J. P. Thomas, Aberystwith; J. Austin, Saltley; T. W. Jones, St. Leonards-on-Sea; A. Rees, 152 Mile End Road, E.; J. P. Norwood, Wath-upon-Dearne; P. Robinson, Norwich; W. A. Phillips, Tunbridge Wells; F. G. Roebuck, Sheffield; T. W. Lowther, Moseley; W. D. Hall, Skegness; G. M. Cobb, Halifax; A. Duckworth, Colne; J. Oliver, Devizes; W. Dennis, Mundesley-on-Sea; A. F. Corfe, Maidstone; D. Ellis, Carrington, Nottingham; D. Beer, Old Colwyn; A. Mills, Eastbourne; W. Johnson, Leeds; C. G. Skyrme, St. Leonards-on-Sea; W. G. Powell, St. Leonards-on-Sea; A. Moss, Eastbourne; W. T. Frost, Worthing; J. C. Robertson, Glasgow; T. W. Longdin, Scarborough; P. R. Hill, Gorleston; D. Halley, Stoke Newington; S. Davis, Chesham; H. Hargreaves, Gloucester; H. W. G. Morris, Chipping Norton; D. Marchant, Eastbourne; G. Turner, Biggleswade; F. Lea, Cardiff; E. Prebble, Liverpool; T. M. Lloyd, Liverpool; J. A. George, Sheffield; A. Duncan, Leith; T. E. Lloyd, Garston; S. N. Pickard, Ossett; J. B. Ward, Huddersfield; H. G. Carter, Walsall; E. J. Readman, Derby; W. Roberts, Bexhill-on-Sea; J. H. Wright, Sheffield; E. J. Foulkes, Hove; H. E. Herington, Leighton Buzzard; J. Donald, Campbeltown; H. Palmer, Great Yarmouth; E. Matthew, 529 Battersea Park Road, S.W.; G. McDiarmid Stromness; W. K. Harrison, Leeds; J. Y. Fairweather, 313 Sydenham Road, S.E.; C. Langsten, Slough; T. Hutchings, Clapton Common, N.; J. Cumming, Crewe; H. S. Cox, Kettering; A. J. Freeland, Beauchamp; D. W. Evans, Glasgow; E. W. Willcocks, 3 Broadway, E.C.; C. Davies, New Bridge, Monmouthshire; W. Nall, Milnrow; W. Haigh, Forest Hill, S.E.; A. Stewardson, Newcastle-on-Tyne; E. A. Collings, Doncaster; R. A. Easton, Winslow, Bucks; P. Waterhouse, Flamborough; W. S. Spicer, Dorchester; A. Grimble, Boston; E. G. Inge, Mundsley-on-Sea; F. W. Sayers, Chelsea; W. G. Nicol, Invergordon; T. Lemon, Market Hill, Co. Armagh; J. H. Gowans, Belfast; J. Jack, Rothes, Morayshire; A. Newton, Yeovil; W. Yates, Shaw, near Oldham; E. B. Ward, Leicester; W. W. Crisp, King's Lynn; J. W. Martin, Brockenhurst; G. W. Evans, 239 Hammersmith Road, W.; W. Gill, Nottingham; J. W. Yarley, Bedale; Mrs. M. Coates, Baslow, Derbyshire; B. Ellis, Sheffield; R. T. Silson, Manningham; T. Dietzsch, 90 Chiswell Street, E.C.; E. Haining, Heeley; H. G. Fletcher, Eckington; G. Todd, Hollinwood, near Oldham; C. Hefford, Derby; G. N. Gutteridge, Dewsbury; J. S. Soutter, Hedon, near Hull; S. W. Dawson, West Norwood; A. E. Richmond, Great Yarmouth; J. S. Shearman, Great Yarmouth; G. H. Howells, Caeran, near Bridgend; W. T. Coltman, Middlesbrough; G. F. Godson, Old Basford; C. E. Marsden, Stocksbridge; A. Shepperson, Kirton, near Boston; T. F. Thorpe, Woodstock; J. W. J. Turner, Eckington; W. H. Cole, Ponder's End; H. C. Payne, Brockley; H. Thompson, Leytonstone; C. L. Lever, Manchester.

MORTGAGES AND CHARGES.—The following have been filed: *British Radium Corporation, Ltd.* Issue of 1,000*l.* debentures.—*Helen Best, Ltd.* Issue of 165*l.* debentures.—*Atlas Soap, Oil, and Chemical Co., Ltd.* Issue of 450*l.* debentures, part of 500*l.* debentures.—A memorandum of satisfaction in full of debentures securing 500*l.* has been filed by *Taylor, Taylor & Hobson, Ltd.*

Trade Notes.

THE BAYER CO., LTD., 19 St. Dunstan's Hill, London, have placed guaiacose on the P.A.T.A. list, the retail price being fixed at the face value—2*s.* 9*d.*

MESSRS. BURROUGHS WELLCOME & CO., have obtained a Grand Prize (highest award) for their exhibit of tabloid, soloid, and Wellcome products at the Alaska-Yukon-Pacific Exposition.

BARNETT'S COLD CREAM.—Free 2 lb. samples of this cream are being given away and sent post free through wholesale houses until Christmas. Particulars are given in the advertisement of Messrs. Barnett & Co., 126 Bristol Street, Birmingham, which is given in this issue.

MESSRS. H. SALLE & CO., of Paris, in their November issue of "Annales de la Drogue et ses dérivés," give special prominence to a highly interesting article on the cinchonas of commerce, by M. A. Michel, of their firm. Those interested in cinchona may obtain a copy on application.

WEIGHING-INSTRUMENTS.—Messrs. Allen & Hanburys, Ltd., Bethnal Green, London, E., have produced a twelve-page list dealing with personal weighing-machines and dispensing-scales. It contains an excellent selection of these instruments, which will be of particular interest at the present time when many pharmacists are overhauling their scales.

CHRISTMAS LINES.—Messrs. Evans Sons Lescher & Webb Ltd., 56 Hanover Street, Liverpool, have published a special list of winter novelties and Christmas lines. These include lanterns, enlargers, toy-cinematographs, mounts with Christmas-greeting inscriptions, electric pocket-lamps, toy trains and trams, clocks, barometers, opera-glasses, and fancy frames. The trade-discount list shows that the goods are profitable to the retailer.

CINNAFORM TABLETS.—There is nothing that the baeilli of common cold and influenza are so afraid of as true cinnamon oil, which medical men have proved to abort attacks of these common ailments. Messrs. Arthur H. Cox & Co., Ltd., Brighton, have combined the prophylactic formalin with cinnamon in their cinnaform tablets, which are put up in screw-capped bottles, to retail at popular prices. The tablets are pretty to look at, agreeable in taste, and should sell themselves at this season.

MASSOLETTES.—Mr. C. E. Sage, F.I.C., states that the results of his biological examination show conclusively that massolettes contain at least three well-defined types of micro-organisms, and that all are capable of producing fermentation in milk. The yeast attacks milk sugar and the other two organisms yield lactic acid. Thus the claim of the makers, Messrs. Arthur H. Cox & Co., Ltd., of Brighton, that their popular confection is an active agent in lactic-acid therapy is substantiated by bacteriological methods.

THAMES COLOUR PLATE.—Particulars are given in our advertisement pages of the Thames Colour Plate, Ltd., a company which is being formed to acquire the patent and manufacture the Thames plate. This plate, of which particulars were given in the *C. & D.* December 12, 1908, p. 915, was the first British invention of the kind, and promises from the simplicity of the process to be a favourite with both professional and amateur photographers. The plate was invented by Messrs. C. L. Finlay and O. S. Dawson, and has taken four years to bring to the commercial stage.

TRICOPHEROUS.—It appears not to be generally known that this title of a well-known hair-preparation is a

registered trade-mark. Messrs. Barclay & Co., Stone Street, New York, have recently called our attention to the fact, and we find that the word alone was registered in the United Kingdom on July 23, 1887, as having been in use ten years before August 13, 1875. The wrapper is also registered. Registration has also been effected in Australia, Canada, U.S.A., Mexico, Central and Southern America, in every country on the continent of Europe, and in Japan. The use of the word by others as a description of a hair-preparation is, therefore, illegal.

Births.

Garsed.—At "The Planes," Gascoyne Road, South Hackney, N.E., on December 6, the wife of William Garsed, Ph.C., of a son.

Milne.—At Mafeking, Cape Colony, on November 11, the wife of W. F. Milne, chemist, of a son.

Smale.—At Darjeeling, India, on November 5, the wife of F. T. Smale, chemist and druggist, of a son.

Warren.—At the Medical Hall, Navan, county Neath, on November 29, the wife of Frederick W. Warren, pharmaceutical chemist, of a son.

Whaley.—At 467 Toronto Street, Winnipeg, on November 19, the wife of Frank Whaley, prescription druggist, of a daughter.

Wilkins.—At Selukwe, Rhodesia, on August 25, the wife of G. S. Wilkins, of a son.

Marriage.

Morgan—Nelson.—At the Chapel Royal, Savoy, by the Rev. Hugh B. Chapman, on December 6, Penry Vaughan Morgan, only son of the late Mr. Octavius Vaughan Morgan, M.P., to Evelyn Arden Nelson, daughter of Mr. John B. M. Camm and of the late Mrs. Camm, of Burnham Grange, Bournemouth.

Deaths.

Boyle.—At Drogheda, last week, Mr. James Boyle, druggist.

Chater.—At his residence, Portland House, St. Albans Road, Watford, on December 2, Mr. Edward Mitchell Chater, pharmaceutical chemist, aged seventy-two. Mr. Chater, who died from pneumonia, entered the business, in High Street, established by his father, Mr. Jonathan Chater, in 1835, fifty-five years ago. His brother, Mr. M. T. Chater, joined him a few years later. The public work of the deceased gentleman has been mainly in connection with educational work, the new County Council Schools opened last March being named "The Chater Schools" in recognition of his labours. An illuminated address was presented to Mr. Chater during the opening ceremony, which he performed, to celebrate his jubilee in connection with the administration of elementary education locally. He served also on the committee of the Public Library since 1873, occupying a term of office as Chairman. Mr. Chater was placed on the Commission of the Peace during the present year. His services to the Beechen Grove Baptist Church were multifarious, for in addition to taking charge of the sittings, he acted for a considerable period as co-treasurer, secretary to various committees, and choirmaster. Owing to advancing years he resigned his various offices at the church at the end of 1908. An illuminated address marked the congregation's esteem of his many services. The funeral took place at the Cemetery, Watford, on December 8. The following gentlemen represented the local Pharmacists' Association: Messrs. W. Hannaford (Vice-President), R. Bluett, C. E. King, G. W. Clark, and R. Bennion (Hon. Secretary).

Cheeseman.—At "Burleigh," Anson Road, London, N., on December 4, Mr. Edward Cheeseman, a partner in the firm of Messrs. Osborne, Bauer, and Cheeseman, 19 Golden Square, Regent Street, London, W., aged seventy-four. The interment took place at Highgate New Cemetery on December 9.

Foster.—At 15 Corve Street, Ludlow, on December 2, Mr. Henry Foster, chemist and druggist, aged sixty-three. Mr. Foster was the second son of Alderman Edward Foster, chemist, and succeeded his father in business. From his father, who was thrice Mayor of the borough, he derived a taste for public work, entering the Town Council in 1887, but retiring in 1892. He became County Magistrate in 1893 and Borough Magistrate in 1899. Other offices held by Mr. Foster were those of Governor of the Grammar School, a charity trustee, and member of the Board of Guardians. He was married twice, and is survived by a large family.

Hamilton.—At 181 Dundas Street, Grangemouth, the residence of his mother, on December 5, Mr. Robert Hamilton, pharmacist, formerly with Mr. Miller, chemist, Simon's Town, Cape Colony, aged twenty-nine.

Harvey.—At 85 Approach Road, Bethnal Green, E., on December 8, Mr. William Harvey, chemist and druggist, aged seventy-six. Mr. Harvey was for nearly fifty years dispenser at the City of London Hospital for Diseases of the Chest (Victoria Park Hospital). A funeral service will be held at the Church of St. James-the-Less, Bethnal Green, on Saturday, December 11, at 2.30 P.M. Interment at Ilford.

Jones.—At Bridport, Dorset, on December 4, Mr. Frederick Jones, chemist and druggist, aged seventy-nine. Mr. Jones was one of the veterans who contributed to our Jubilee Number. We gave then his portrait and particulars of his career (p. 165).

Smith.—At Stockport, on December 6, Mr. John Smith, of the firm of Messrs. J. Smith & Co., drysalters, Manchester and Stockport, aged fifty-eight. The deceased gentleman was prominent in Stockport circles.

Williams.—At 53 Moreton Street, London, S.W., on November 27, Mr. Alfred Williams, pharmacist, aged fifty-seven. Mr. Williams, who passed the Minor in 1886, was in business at Seven Sisters Road before removing to Moreton Street.

Business Changes.

Mr. W. V. Westlake, chemist and druggist, has purchased the business of Mr. G. Bruce, chemist, Ashford, Middlesex.

Messrs. W. H. Bagnall & Co., chemists, are vacating their premises at 18 New Street, Lancaster, owing to the termination of the lease.

Hatton's Drug-stores have removed from 702 Lea Bridge Road to larger double-fronted premises at 708 in the same thoroughfare.

Mr. C. E. Shipman, chemist and druggist, late of Billingshurst, has acquired the business of Mr. G. Lawrenson, Ph.C., Sudley Pharmacy, High Street, Bognor.

The Camphylene Co., Ltd. (recently registered to take over the disinfectants branch of Fleming's Oil and Chemical Co., Ltd.) has removed to Briant Street, New Cross, S.E.

Messrs. Peter Spence & Sons, Ltd., Manchester Alum-works, Manchester (whose London agency was in the hands of Messrs. W. Caudery & Co.), announce that they will shortly open their own offices in London.

Mr. T. S. Irvin has opened a photographic and drug store at 80 Bedford Street, North Shields, Mr. W. G. Irvin, chemist and druggist, having sold his pharmacy at 102 Bedford Street, the premises now being to let.

Mr. R. Calvert Brown, pharmacist, has taken over the business of Messrs. Milburns, Ltd., 3 Westborough, Scarborough, and will carry on under the style of the Fleet Drug-stores. Mr. Brown has managed the business for several years.

Mr. Herbert Wolstencroft, manufacturing chemist, Middleton Road, Chadderton, near Oldham, has been elected to fill a casual vacancy on the Urban District Council.

Personalities.

Dr. Ludwig Mond, F.R.S., is lying in his London residence rather seriously ill, but the latest reports are more favourable.

Mr. G. F. Morrell, Ph.C., 1906, Bell Scholar, has passed the London University B.Sc. examinations with honours in chemistry.

Dr. George Barger, M.A. (Cantab.), D.Sc. (Lond.), has been appointed lecturer on chemistry at the Goldsmith's College, New Cross, S.E.

Alderman F. Bird, chemist and druggist, 156 Spon Street, Coventry, has been appointed a member of the City Higher Education Committee.

Mr. Gibson Dixon, the Corn Market, Halifax, obtained the first prize for the best chemist's window in the local window-dressing competition held last week.

Miss Faith Margaret Hearn (youngest daughter of Mr. J. Hearn, Assistant Secretary to the British Pharmaceutical Conference) has passed the B.A. examinations of the London University.

Mr. C. Hugh Clarke, eldest son of Mr. C. H. Clarke, chemist, Chepstow, was one of the successful candidates at the recent B.Sc. (London) examination, passing with first-class honours in chemistry.

Mr. F. J. Norman, manufacturing chemist, Runcorn, Cheshire, has made a munificent offer to his native town, in memory of his late father and his wife. The scheme includes the building of a number of model semi-detached homes for citizens, and the completion of the cottage hospital by the addition of another ward. The local Council has decided to accept the offer.

Alderman Sir Walter Vaughan Morgan, Bart., has placed his resignation of the office of Treasurer of Christ's Hospital under the scheme of 1891 in the hands of the Prince of Wales, the President, and the Council of Almoners, and the resignation will take effect at the end of the year. Sir Walter, who is seventy-eight years of age, and was educated at Christ's Hospital, has, says "The Times," rendered splendid service to the foundation. He will remain Treasurer of the old Governing Body, which is in charge of the endowments excepted from the scheme.

Mr. Agostino Levanzin, B.A., the President of the International Association of Pharmaceutical Esperantists, 12 Strada S. Vincenzo, Malta, is a British subject who is desirous of promoting friendly relations and scientific intercourse among his English and foreign *confrères*. Mr. Levanzin has had a wide and varied career. He took his B.A. at Malta University in 1894, and then entered upon the medical course. After two years study failing health compelled him to give up medicine for pharmacy. He obtained his warrant of Chimico Farmacista in 1898. Acting next as chief chemist in Mizzi's dispensary, Strada Reale, Valetta, the most important pharmacy in Malta, he subsequently started in business for himself in his native town, Cospicua, removing thence to Birchircara for health reasons. Ill-health again compelled him to relinquish pharmacy for law. In following his new profession, Mr. Levanzin finds its claims less exacting than the hours required for attendance in the pharmacy, which he considers are sufficient to make existence a "mere bondage." Mr. Levanzin is also editor and proprietor of "Nahla," a weekly review of a scientific, literary, artistic, and political nature which circulates widely in the island. He is desirous of getting into touch with pharmacists interested in Esperanto, and he will forward a free copy of a brochure which will be published shortly of the recent congress of pharmaceutical Esperantists at Barcelona to those forwarding their name and address to him.

Mr. A. Levanzin.

B.P.C. and Federation.

A MEETING of the Executive Committee of the British Pharmaceutical Conference was held in the Pharmaceutical Council Chamber at 16 Bloomsbury Square on Wednesday afternoon, December 1, Mr. N. H. Martin (Vice-President) in the chair. Messrs. Holmes, Naylor, and White (Vice-Presidents), Peck and Finnimore (Hon. Secretaries), J. C. Umney (Treasurer), Harrison, and Howard were also present.

Mr. Peck read a letter from Mr. Ed. Jones (Hon. Secretary of Federation of Local Pharmaceutical Associations), asking that a deputation might be received with the object of putting before the Executive the views of the Edinburgh District Chemists' Trade Association with regard to formation of a Commercial Section of the B.P.C. Mr. Peck reported that he had, in accordance with the wish expressed in this letter, arranged the present meeting. Letters were read from Mr. Ransom (President), Messrs. Alcock, Clague, Gilmour, and Tocher expressing their views upon the matter.

The deputation, consisting of Messrs. W. L. Currie (Chairman of the Federation), Mr. Edmund Jones (Hon. Secretary), and Mr. J. C. Pentney, was then admitted. Each member of the deputation strongly urged the Executive Committee to form a Commercial Section of the B.P.C. to take up subjects handled by the Federation, on the ground that the purely scientific character of the annual meetings does not attract pharmacists as a Commercial Section would be likely to do. They did not consider any alteration of the constitution of the B.P.C. would be necessary to effect this, and any increased expense incurred would be recouped by the additional membership which would result.

Mr. Martin assured the deputation that the Executive were cognisant of the work done in the past by the Federation, and were fully alive to the importance of the points raised, but there was great difficulty in selecting topics for discussion which would (1) be really useful to pharmacists generally, (2) not give offence to their medical brethren, and (3) be suitable for reporting in the lay Press.

In answer to questions by Mr. Naylor Mr. Currie stated that the desire of the Edinburgh Association was that the Federation should cease to exist as a separate body, and that all members of its component societies should apply for membership of the B.P.C.; also that the Executive of the B.P.C. should have full control of the choice of subjects for discussion.

With regard to the Chairman's observations concerning the lay Press, Mr. White remarked that local reporters could be excluded from the commercial discussions.

Mr. Peck wished to know precisely what kind of subjects the Federation recommended for discussion at the annual meetings. The reply was, "Dispensing and such subjects as are now discussed by local associations." Mr. Jones further remarking, "Our present wish is to know whether the Executive will accept the resolution of the Edinburgh Association. If the reply is in the affirmative, the committee will supply further details of the matters they think suitable for discussion."

After thanking the Executive for their reception, and receiving their thanks for placing their views before them, the deputation withdrew.

Various opinions for and against the formation of such a section were afterwards advanced. It was pointed out that before doing so it would be necessary to take the opinion of members at the annual meeting, and it is not desirable to admit too large a number of delegates who are not members to the Conference meetings. The question as to how far the inclusion of a Commercial Section in its programme would affect the prestige of the Conference in the eyes of the governing bodies of the Universities, who have hitherto been so ready to assist in entertaining the members, was brought forward. The difficulty of finding suitable officials to work such a section was also mentioned. The fact that the Federation work affects only the retail side of pharmacy, and that its topics would not be of interest to a large number of those attending the meetings was pointed out. It was asked what indications there are

for supposing that the desire for this Commercial Section is very widespread. It was also urged that at the present time especially one body at least in pharmacy should remain pledged to the advancement of scientific pharmacy only. After a careful and somewhat lengthy discussion upon the points raised, members of the Executive being anxious only to study the best interests of pharmacy generally, and the B.P.C. in particular, the following resolution was moved by Mr. Naylor, seconded by Mr. Holmes, and unanimously carried :

"That, with the view of testing the value of the suggestions made by the deputation from the Federation, and also of gauging the opinions of the members of the Conference generally upon them, the Federation of Local Pharmaceutical Associations be asked to arrange for and to conduct a meeting on the lines indicated by the deputation on the afternoon of the Tuesday in the Conference week at Cambridge in July 1910."

Mr. J. C. Umney gave notice that, in order to pave the way for such extension as was foreshadowed, he would move "that Art. I., Section I., of the constitution be altered to read 'for the cultivation of the science and practice of pharmacy.'"

The draft of the new circular *re* alteration of the financial year was approved and ordered to be distributed.

Mr. Peck stated that the arrangements for the 1910 meeting are progressing satisfactorily, that the authorities of St. John's College had granted the use of their dining-hall and combination room for the reception, and of Emmanuel College grounds for a garden party.

The Secretaries reported that the application of the members of the Council of the Ontario College of Pharmacy for membership had been received, together with a draft in payment of one year's subscription. These gentlemen—Messrs. G. E. Gibbard (President), J. Hargreaves (Vice-President), H. Watters, E. W. Case, J. H. H. Jury, J. R. Y. Broughton, A. Stewart, H. Southcott, R. A. Harrison, W. A. Karn, J. F. Roberts, E. R. Wigle, and A. J. Johnstone—were heartily welcomed by the Chairman, and, together with Messrs. W. R. Blain (Bolton), T. P. Barnes (London), E. Hinks, S. A. Razzack (Deccan), H. Wilson (Southampton), were elected to membership.

Recent Wills.

The dates in parentheses refer to the issues of "The Chemist and Druggist" in which the deaths of the testators were reported

Mr. Francis Edward Edmond, 25 Highfield, Scarborough, left estate valued at 462*l.* 14*s.* gross. (*C. & D.*, November 20, p. 778.)

Mr. Charles Wapner Moope, 249 Ramsay Road, Forest Gate, Essex, chemist and druggist, who died on November 14, aged eighty-five years, left estate valued at 420*l.*

Mr. William Holway Dalgleish, Park Place, Longbrook Street, Exeter, for many years general manager for Messrs. James Townsend & Sons, left estate valued at 1,631*l.* 1*s.* 5*d.* gross, with net personalty 1,249*l.* 19*s.* 4*d.* (*C. & D.*, September 18, p. 467.)

New Books.

These notes do not necessarily exclude subsequent reviews of the works. Any of these books printed in Great Britain can be supplied, at the published price, to readers of this journal on application (with remittance) to the Publisher of "The Chemist and Druggist," 42 Cannon Street, London, E.C.

Formulaire National de Préparations Pharmaceutiques, ancien formulaire de la Société de Pharmacie d'Anvers, revu et augmenté par La Nationale Pharmaceutique. $5\frac{7}{8} \times 4$. Pp. 110. 3f. (La Nationale Pharmaceutique, 144 Chaussée de Berchem, Antwerp.) [Reference has been made to the Antwerp formulary on more than one occasion during the last few years. The Antwerp Society of Pharmacy has been absorbed into a National Society, aiming at including the whole of the pharmacists of Belgium. One section of the Society was entrusted with the task of compiling a formulary of pharmaceutical preparations not official in the Belgian Pharmacopœia. The small book here mentioned is a revised and enlarged edition of the original formulary. It contains 200 pharmaceutical recipes, a number of formulæ for analytical and bacteriological reagents, synonyms of new remedies, and a minimum price-list of the preparations referred to.]

INFORMATION DEPARTMENT

The object of this department is to supply our subscribers with the names and addresses of manufacturers and agents, or other business information which they may be in need of. Inquiries should be sent by post, addressed to the "Information Department of 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Inquiries in regard to dispensing, legal, practical, technical, or other pharmaceutical subjects should be addressed to The Editor, who will reply to them in the Correspondence Columns.

Information Wanted.

We would be obliged if readers would reply, by postcard or otherwise, to any of the subjoined inquiries. Replies should be addressed to the "Information Department of 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

4/39. "Haemolin": makers or agents.

7/35. "Marvallo" nail-stone: where obtainable?

3/20. "Borax-wood": what is it and where obtainable?

7/44. "Soluroids": who makes or where are they to be obtained?

71/8. Insurance companies specialising in chemists' and dentists' risks.

7/36. Where can "Walter Obrecht's Horn-Kroko Combs" be obtained?

6/4. Machinery for extracting starch from potatoes: makers or suppliers.

4/53. "Bains' Preparation" for destroying ants: who makes or where obtainable?

259/73. Makers of, or wholesale dealers in, "Baby's Own" soap, marked "M. L. & Co."

5/28. "Bean Blossom" Perfume: who are the proprietors, or where can it be obtained?

Information Supplied.

In reply to inquiries, information has been sent during the past week to subscribers and others by our Information Department in regard to the following subjects. The information will be repeated to any others requiring it who send a stamped and addressed envelope for the purpose to the Information Department as above.

Abrastol, makers and agents (4/36).
Acid calcium phosphate, makers (259/49).
Alformant lamp, makers (4/41).
Basic slag, manufacturers (258/56).
Cleansing comb (patent), makers (3/24).
Cole's Ossidine, proprietors (259/56).
Confectionery plant, makers (5/9).
Dealers in Indian drugs (1/74).
Drinkwater's brander, makers (2/61).
Druggists' journals in U.S.A. (258/8).
Drug-stores Association, address (66/19).
"Elephant and Tortoise" brand combs, makers (3/24).
Enterinum tablets, makers and agents (257/54).
Eucalyptus citrodora, wholesale supply (258/15).
First-aid appliances (stretchers, etc.), makers (5/47).
French pharmacy journals, address (5/16).
Fumigating lamps for mosquitoes (2/23).
Hæmol malt-extract, maker (3/16).
Ivory tooth-combs, makers (3/24).
Kenwell "White" corn-cure, makers (206/426).
Laville's liqueur, proprietors (1/46).
Leg ambients, makers (5/28).
Little's "Phenyle," makers (258/71).
Magic-lantern outfits, suppliers (7/41).
"National" adhesive plasters, makers (4/27).
Oxy-hydrogen jets for lanterns, actual makers (3/35).
Paper-lined jute bags, makers (257/9).
Potash chlorate, crude, supply (258/56).
"Ruberoid," makers (5/68).
Superphosphates, manufacturers (258/56).
Theo-quinine tablets, supply (255/16).
Thymolyptus pastilles, maker (206/428).
Transparent soothers, makers (1/57).
Urodonal, maker (4/44).
Whitall Tatum Co.'s agent (4/45).

"We must thank you for information given to us, which has proved very valuable."—Yours faithfully, Gough & Son, Birmingham, December 7.

The Imports of apothecaries' wares into Mauritius during 1908 amounted to Rs. 170,256, against Rs. 159,393 in 1907.

Observations and Reflections.

By "Xrayser II."

The Word "Pharmacy"

has been a good deal discussed recently, both in the *C. & D.* and elsewhere, and a somewhat fuller account of this and other words of the group to which it belongs may be interesting. These words are, of course, all derived ultimately from the Greek *pharmakon*, a drug, which Professor Skeat suggests may have come from the Doric form of a verb signifying "to bring (help)." Unfortunately for this suggestion, the word appears from the first to have carried a pretty strong suspicion of poison, of sorcery, enchantment, and other black arts; and the modern pharmacist who wishes to contemplate the "hole of the pit whence he was digged" could not do better than consult Liddell and Scott under this head. The earliest date given in the Oxford English Dictionary for any word derived directly from *pharmakon* is 1541, when R. Copland used "pharmaceutyke" to designate one of "the parties (parts) of the art of Medecyne," and "pharmacopole" for a dealer in drugs. This latter word is now obsolete, but Erasmus Darwin used it in 1790, and in its later form, "pharmacopolist," it is still occasionally met with. It is rather strange that some ingenious evader of the law has never assumed the title, as a Liverpool man did, some thirty-five years since, that of *pharmacien*, after having been compelled to give up "pharmacist." The English form, "pharmacian," by the way, appears in Blair in 1720, but it did not "catch on." The full form, "pharmaceutical," does not occur until 1648, "pharmaceutist" not until 1836, two years after "pharmacist," the earliest quotation for which is 1834; the first authority for this, much the better form, being Lytton's "Last Days of Pompeii." "Pharmacopœia" appears first as an English word in Burton's "Anatomy of Melancholy" in 1621. Long before any of these words found a recognised place in English, "pharmacy" had been imported from the French by Chaucer ("The Knight's Tale"), in whose "Somme hadden salues and somme hadden charmes, Fermacies of herbes," it still carries a suggestion of magical arts. This meaning of a medicine the word has long lost, but by 1597 it had acquired that of the art of preparing and dispensing medicines, and by 1883 that of a drug-store or dispensary, and both of these it still retains. It will be seen that in the last sense it is older than "pharmacist."

The New Pharmacopœia

is at last taking shape, the Committee of the General Medical Council in charge of it having decided to incorporate the Indian Addendum as part of the work. The B.P. will thus be Imperial. As the Brussels agreement regarding the strength of potent galenicals will be given effect to, it will also to that extent be International. A decision has been taken as to certain drugs that are to be dropped and certain others that are to be introduced, so we are justified in assuming that progress is being made. And none too soon, for the new edition is overdue. Leaving out of account the 1874 Addendum, we have had during the last forty-two years only three editions of the Pharmacopœia—namely, in 1868, 1885, and 1898—and, judging from the number of copies of the book now on hand, it is doubtful if we shall see the next edition before the middle of 1911. This will give an average life of fourteen years per edition, and for a work of such importance this is far too long. With all respect to the General Medical Council, they have no right to allow the B.P. to lag superfluous on the stage when the general drift of medical opinion and practice is years in advance.

The Medical Curriculum

is not to be lengthened "at present." but the Education Committee of the General Medical Council evidently contemplates the recommendation of an extension in the near future. Just what this means to students of medicine may be gathered from figures submitted to the Council. The minimum period of study required at present is five years, but of those who qualified in the year 1906 only 13.8 per cent. succeeded in five years; 34.9 per cent. qualified in their sixth year, 18.1 per cent. in their seventh, and 12.9 per cent. in their eighth, the average length of the curriculum being exactly 6.95 years. Assuming that another year is added to the course, the average student will take eight years to qualify, and as he begins his studies about twenty-one it appears that before he can take his qualification he must have reached the age of twenty-nine or thirty. The tendency of recent years has been to make the avenues to the medical profession more and more difficult, and so long as students crowd in there may be some excuse for the stiffening up. It seems, however, that this screwing-up process cannot go on indefinitely, and there is bound sooner or later to be a reaction. It is certainly a curious state of affairs that a man has to spend half his life in study before he can be allowed to do a hand's turn in his chosen career for the community or himself.

It Would be Well

if the attitude of the whole medical profession towards pharmacists were as reasonable and as frankly expressed as Dr. Cavanagh's, as reported in the *C. & D.* last week. Speaking at Sheffield, he said: "The majority of the medical men in Sheffield could not get a living wage if they did not dispense, and the majority of chemists if they did not prescribe." The plea sometimes put forward by doctors that they cannot trust chemists to do their dispensing is mere cant; they do it themselves simply because they think it pays them better; their reason is not professional but financial. There is nothing dishonourable in this, but it is dishonourable to act from interested motives and profess disinterested ones. As regards chemists prescribing, Dr. Cavanagh might have gone further than he did. Chemists prescribe not only because they cannot get enough dispensing to keep them alive, but because they really cannot help it. The public *will* come to them for advice in little ailments. It was so when as yet the majority of medical men did not dispense, and it is perhaps more so than ever now. If so, the fault lies partly with those doctors who by cultivating a trade in medicines (for it comes to that) have not only done much to deprive us of our livelihood, but have considerably diminished the distance which in the public mind lies between themselves and us. What wonder if unthinking people go a step or two further towards bridging the gulf? It is not one class of chemists only who prescribe; all, except perhaps the very highest, do it more or less, and cannot help doing it.

The Septic Moustache

is the latest discovery of science. Is it the case that clean-shaven men enjoy immunity from "common colds"? A writer in the "Lancet" thinks it is, for he says these men are attacked less frequently by "common colds" than those who cultivate a moustache. He believes that the daily shave may prove to be an antiseptic process which regularly removes disease-producing organisms which otherwise would lurk and grow on the hairy upper lip. I happen to know some hirsute men who declare they have never had a common cold worth remembering, but perhaps they are exceptional. The fact that women take cold just as frequently as men proves nothing, our medical friend maintaining that fine downy hair is natural to the lip of women and children, and forms in their case a harbour for the bacteria. What do your readers think about this? Chemists have unique opportunities for verifying such an hypothesis. I wonder if any of them are acquainted with men who were chronic sufferers from common colds when they wore a moustache, and who have been immune since they shaved clean.

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November Foreign Trade.

The improvement in the Board of Trade Returns since May was accelerated last month, when both imports and exports were greater in value and volume than in any month this year, the figures being as follows:

	£	1908.	1907.
Imports ...	61,605,222	+11,700,745	+4,459,279
Exports ...	33,321,455	+ 4,174,040	−2,540,721
Re-exports ...	6,751,890	+ 69,697	+ 620,173
	101,678,567	+15,944,482	+2,538,731

The principal increase in imports was 7,492,000*l.* in raw materials, four millions of which was in cotton alone. Oil-seeds, nuts, oils, etc., came next with 765,000*l.*, while all the remaining articles scheduled in this group, with one exception, showed more or less expansion. Manufactured articles increased by 2,049,000*l.*, this including 118,900*l.* for chemicals, etc., the imports of which during the month amounted to 989,880*l.*, the largest increase being in the unenumerated (80,524*l.*), which was followed by one of 43,000*l.* in dye stuffs, and the third largest item was drugs, which increased by 22,273*l.* Quinine imports were 127,340 oz. more, the month's figures being 306,646 oz., and there was also an improvement of 1,197 cwt. in Peruvian bark; glycerin, on the other hand, declined by 710 cwt., and there were also shrinkages in bleaching-materials, sulphur, saltpetre, soda compounds, sulphuric acid, and myrabolans.

On the export side the largest gain was 1,577,139*l.* in cotton goods; wool was also 505,000*l.* up, iron and steel manufactures 443,000*l.*, miscellaneous textiles 223,000*l.*, and chemicals 225,518*l.* more. Declines of 239,078*l.* in machinery and 129,000*l.* in new ships are recorded. The most remarkable feature of the November exports was the excellent business in the chemicals group, improvement being shown by practically every article. The total value

was 1,486,097*l.*, compared with 1,260,579*l.* in November, 1908, and 1,374,360*l.* in November, 1907. Higher prices do not account for the gratifying advance. The fact that the heavy-chemical trade is prosperous is a sure index to a revival in other industries. Drugs and medicinal preparations also shared in the activity, the value exported being 154,184*l.*, or 23,740*l.* more than in November, 1908. Quinine was 4,153 oz. less.

It is interesting to note that the bullion and specie account is as satisfactory as the goods are. Imports of gold and silver during the eleven months amounted to 59.7 millions, compared with 51.1 millions in 1908; while the exports in the same periods were 54.6 millions this year and 57 millions last year. These figures do not support, but quite the contrary, the persistent contention that there has been an exceptional efflux of money from the country this year.

More Legal Problems.

When we notified the publication of Mr. Glyn-Jones's book on "The Law of Poisons and Pharmacy," we remarked that there are potentialities in the Acts which ought to be conserved. One of these—a long-neglected precaution of Section 17—is thus referred to by "The Lancet" in reviewing the book:

"With regard to medicines supplied by medical practitioners to their patients which contain scheduled poisons we are reminded that these are only exempt from the provisions of Section 17 of the Pharmacy Act, 1868, if such medicines be labelled distinctly and legibly with the name and address of the seller (*i.e.*, the medical practitioner) and the ingredients thereof be entered with the name of the person to whom it is sold or delivered, in a book to be kept by the seller for that purpose. We cannot recall any case in which this section has been enforced against any medical practitioner not keeping an open shop, nor does the author quote such, but *it is hardly satisfactory that it should be so habitually ignored.*"

The italics are ours, this, for the present, being sufficient emphasis. The "Justice of the Peace Journal" also touches upon two points which directly concern pharmacists themselves. The "J.P.J." says:

"That the protection of pharmacists from the illegitimate competition of unqualified practitioners is by no means complete is strikingly illustrated by a case quoted by the author, which was heard in the Divisional Court last month, and in which it was held by Darling and Bucknill, JJ., that one Mercer, a person whose name did not appear on the register either of pharmaceutical chemists or chemists and druggists, but who had described his place of business as a 'pharmacy,' had not taken a name, title, or sign implying that he was registered, and therefore had not infringed the provisions of the Pharmacy Act, 1852. On the other hand, pharmacists have not, perhaps, been as careful as they might have been to preserve the individual nature of their qualification, trading, as they often do, under assumed names, either wholly fictitious or those of their deceased commercial predecessors. Whether the use of such names on poison-labels complies strictly with the requirements of Section 17 of the Pharmacy Act, 1868, is a point which still awaits an authoritative decision, but in our opinion the author is wise in tendering the advice to persons using trade-names on their labels to print upon the labels used for poisons, in addition to the trade-name and a clear indication of the particular shop at which the poison was sold, the name and address of the seller as it appears in the Register of Chemists and Druggists."

These remarks will be taken to heart by pharmacists, we daresay, but the difficulty is to find finality in Section 17. We mentioned half a dozen unheard-of eventualities last week, and "The Lancet" remark suggests others. Thus we made part of our 1909 Diary a poisons register, but it was objected to, as it was not a book kept for that purpose according to Section 17. Chemists enter all kinds of prescriptions (containing or not containing poisons) in a common book; is that a book "kept for the purpose" in the sense of Section 17? How many medical practitioners use a prescription-book in accordance with Section 17 of 1868 and Section 3, 1869? Since infringement of these provisions is a criminal offence, are medical practitioners who habitually ignore them guilty of infamous conduct in a professional respect? Again, as enforcement of Section 17 is no more obligatory upon the Pharmaceutical Council than it is on the General Medical Council, should not the latter warn all registered medical practitioners of the need to observe this law? At all events, persons should be warned when first placed on the register, and the Pharmaceutical Council might co-operate with the Medical Council in the matter. It is really too bad that doctors who use no names at all on their labels should go scot free while chemists who obey the law in all respects and use valuable trade-names should be fined.

Cape Medicine-stamps.

A further stimulus is given to the interest regarding medicine stamping in Cape Colony by the consideration in committee of the Cape House of Assembly on November 11 of the amended Stamps and Licences Act (p. 387). The original Act, which proved a failure, raised a storm of protests from chemists and wholesalers in the Colony, and culminated in a deputation from the Pharmaceutical Society of Cape Colony to the Colonial Premier (Mr. Merriman). This consultation has borne good results, but the amendments are still far from meeting with the chemists' desires. A grievance is removed by the new scale of stamping values, which with the old rates are shown in the following table, omitting the intervening increase of 1*d.* for each 6*d.* rise in value of medicine in the new rates:

Value of Medicine not Exceeding	Old Rate	New Rate
s. d.	*s. d.*	*s. d.*
1 6	0 2	0 2
2 6	0 4	0 4
4 0	0 6	0 7
10 0	1 6	1 7
20 0	2 6	3 3
30 0	4 6	4 11
50 0	0 0	8 5
over 50 0	20 0	—

The value of stamps to be placed on lower-priced proprietary remedies is not appreciably altered. The strenuous opposition to the old rates was based largely on the big jump from 6*d.* to 1*s.* 6*d.* when the value of the stamped article exceeded 4*s.* The criterion of value is still to be the retail selling price ruling in Cape Town or at the place of manufacture in the Colony. Our correspondent intimates that it is the intention of the Government (in direct opposition to the Society's suggestion) to shift the onus of stamping to the wholesaler or importer. The error of omission of the penal clauses, which was fatal to the original Act, has been repaired. Drastic penalties are now provided—viz., not exceeding 50*l.* for non-compliance with the stamping regulations, and 100*l.* for obstructing an inspector. The definitions of "medicine" and "exposed for sale" are exceedingly wide, and official guidance given in the Cape "Government Gazette" for November 6 (*C. & D.*, 1908, II., p. 881) will, with the additional exemptions below, probably still apply, but possibly test-cases will be necessary to decide the scope of the Act's requirements. As to exemptions, the suggestions of the Pharmaceutical Society regarding foods, mineral waters, and disinfectants were adopted, while the Premier moved to exempt "so-called Dutch remedies." However, preparations corresponding to "known, admitted, and approved" remedies in Great Britain failed to secure exemption, as also toilet preparations, fumigating

remedies, and branded goods. It will be noted that "any medicine bearing a distinctive brand, mark, coat of arms, or device," whether a trade-mark or not, must be stamped, so that the Premier by this action continues the anomaly of classing together makers of world-wide repute for pharmaceutical products and the pretentious proprietor of secret remedies. The Society suggested that regarding stamp legislation home law and practice should be followed, but the Cape Parliament are placing on the Colonial chemist an irritating burden and restricting the sale of imported articles of known value. Unless official lists of exempted and dutiable articles are published the chemist will have many doubts concerning what should or should not be stamped.

Soya Bean and its Oil.

LESS than three years ago soya oil was practically unknown as a commercial article outside China, but since its advantages in the soap-industry became recognised it has rapidly assumed a leading place as a substitute for cottonseed oil, and enormous quantities of beans are now shipped to the United Kingdom and the Continent. In this country Hull has become the headquarters for the crushing of the soya bean, and this year marks a record in the trade, as no less than 400,000 tons have been shipped to the United Kingdom, of which 150,000 tons went to Hull. The mills have therefore had an exceptionally busy time, and there is every reason to believe that soya bean will be a regular article of import. The oil has proved quite equal to cottonseed oil in the manufacture of soap, which is its chief outlet. Had it not been for this cheaper substitute it is said that the price of cottonseed oil, already remarkably high, would have been somewhere about 35s. to 40s. per cwt., a figure which would have crippled its use as a soapmaking material. The current "Bulletin of the Imperial Institute" has an interesting article on the cultivation of *Glycine Soja* (*Soja hispida*), in which it is stated that in China (especially Manchuria) the seeds have formed an important article of diet for many years; but this potentiality as an important export was never recognised until after the Russo-Japanese war. During the war the demand was stimulated, and considerable local expansion took place. After the war the demand fell off and new outlets were sought. This was in 1906, when Japan was the first to engage in the trade through Vladivostok; but trade depression in Japan in 1908 diverted the exports to Europe, with what results is now seen. Shipments in future will probably be erratic, much depending on the crops; but efforts are being made to cope with these in a satisfactory manner, and next year we are likely to see an extension of seed-crushing firms in the provinces. In the United Kingdom, Hull and Liverpool have the bulk of the business, and Harburg (near Hamburg) is the centre of the German industry. Three qualities are shipped to this country, No. 1 being shipped from Dalny, No. 2 from Vladivostok, and No. 3 from Hankow. On crushing the seeds yield about 10 per cent. of oil, while the residual oil-cake has proved to be a valuable cattle-food. The following analytical results show the components of the air-dried seeds:

	No. 1	No. 2		No. 3
		With husk	Husked	
Water	11.0	9.1	10.3	10.8
Albuminoids	35.3	40.4	43.6	34.0
Carbohydrates	26.0	25.1	21.0	28.9
Fat	18.9	15.8	15.5	16.9
Fibre	4.2	5.2	4.4	4.8
Ash	4.6	4.4	5.2	4.7

No. 1 shows the figures obtained by Professor Sir A. H. Church ("Food Grains of India," p. 143), while No. 2 analysis are those obtained by Dr. Forbes Watson and quoted by Professor Church. No. 3 gives the results from several varieties of soya bean grown in America, and are taken from the "Farmers' Bulletin" (No. 58, United States Department of Agriculture, 1899). The composition entitles soya bean to a high place as a food for supplementing the deficiencies of starchy foods, while the press-cake after the extraction of the oil contains 40 per cent. of flesh-forming proteids and 7 per cent. of oil. Soya-bean cake resembles linseed cake, being hard and heavy, but is lighter in colour, and possesses a characteristic taste recalling that of peas. Feeding experiments at the Cumberland and Westmoreland Farm School, Newton Rigg, and also at the Royal Agricultural College, Cirencester, show that cottonseed cake and soya-bean cake are practically equal as regards milk-producing powers. The soya-bean cake gave a milk slightly richer in fat or a little larger in quantity; but the butter obtained in the Cirencester trials was stated to be softer, paler, and slightly inferior in flavour to that obtained from cows fed with cottonseed cake. The expressed oil possesses an agreeable odour and taste, and is largely used for edible purposes in China. It belongs to the class of semi-drying oils, a thin skin being formed on exposure to air, resembling cottonseed oil in many respects, but exhibiting a more pronounced drying character. The physical and chemical constants of soya-bean oil and cottonseed oil are compared in the appended table:

	Soya-bean Oil	Cottonseed Oil
Sp. gr. at 15° C.	0.9240—0.9270	0.9220—0.9260
Saponification-value	190.6—192.9	191.0—196.5
Iodine value	121.3—124.0	101—116
Hehner value	95.5	95.9—96.2

Soya-bean oil consists chiefly of glycerides of palmitic, oleic, and linoleic acids. We may add that it is from this bean that soy, the well-known Chinese and Japanese sauce, is made.

The Word "Pharmacy."

The latest rumour in regard to this matter is that the Pharmaceutical Council proposes to co-operate with the General Medical Council and the British Dental Association in legislation to prevent the use of place-names similar to protected professional titles by persons who may not legally use these titles. This is the deduction which we make from an "impression" which has been given by a member of the Pharmaceutical Council (not Mr. Rymer Young), who has found it necessary to say something in the way of appeasing pharmacists in his locality. The feeling in regard to the matter throughout the country is stronger than the Council appear to have anticipated. Of course, this is a matter in which the Council only can take action. It alone is responsible for not using the legislative opportunity which existed a year ago, and the legal procedure under the 1852 Act was taken by the Council against advice which predicted failure. Therefore it is the Council which should find a remedy.

What Next?

The latest suggestion in the way of competition with chemists is to form a company of medical men for the purpose of establishing throughout the country branches to supply them with "drugs, dressings, instruments, *x*-rays (*sic*), and electrical necessaries." It is proposed that

"Qualified chemists will be in charge of the branches, where doctors can have their dispensing done and delivered

to their patients if desired. . . . No retail trade will be done with the general public, with the exception of qualified nurses or such local clubs or ambulance societies as the local doctors recommend. Special order-forms, with counterfoils, will be supplied to medical men to enable them to send their orders and prescriptions to the branch in their district for execution and dispensing and keep a record of the same, and the charge thereon will be debited to the doctor and accounts rendered monthly."

We need go no further; that sentence "accounts rendered monthly" is in striking contrast to common knowledge as reflected by the Shoreditch County Court Judge in a case reported this week; but we may add that a *C. & D.* representative, who called at the office of the chartered accountants who have circularised the proposal, was informed that the company is not yet formed.

Standardisation of Disinfectants.

The chemical and bacteriological inquiry into the value of leading disinfectants which has been conducted for the "Lancet" has been somewhat inconclusive as regards the valuation of disinfectants in presence of organic matter, but one important result is that it is conclusively shown that the Rideal-Walker coefficient is too high, although the "process gives accurate information under well-defined and strictly limited conditions." The following table fairly summarises the results of the present inquiry:

Disinfectant.	Phenols or phenoloids.	Carbolic coefficient (bacillus coli), mean.
Cofectant	66·27	9·8
McDougall's M.O.H. Fluid ...	47·13	7·9
Kerol	40·56	7·7
Okol	48·50	8·9
Crude Carbolic	82·65	4·2
Bactox	39·70	9·5
Cyllin (bulk sample)	40·41	8·8
Cyllin (Medical)	32·08	6·4
Calvert's No. 5 Carbolic	93·26	2·5
Izal	41·35	7·4
Lysol	50·96	1·7
Lawes'	28·20	1·6
Pearson's	20·70	2·2
Jeyes' (Chemists')...	17·80	1·7
Krysyl	14·16	1·3
Zotal	10·00	1·5
Jeyes' No. 2 (Grocers')	5·13	0·75

The processes employed are fully described in the "Lancet" of November 13 and 20, and the results summarised in the issue of November 27.

Bankruptcy Law Reform.

Representations are being made to Mr. Churchill by Chambers of Commerce throughout the country as to the introduction next Session of a Bill giving effect to the recommendations of the Departmental Committee, which has considered the whole question of bankruptcy law reform. A Bill, it is believed, has already been prepared, and it is stated that, with the exception of one or two points, the President of the Board of Trade is in virtual agreement with the views held by the Association of Chambers of Commerce of the United Kingdom which waited upon him some months ago. The committee recommended, *inter alia*, that the law should be altered so as to define what books of account must be kept by a person carrying on a trade or business, which should include a book or books containing entries in sufficient detail of all cash received and cash paid, of all goods sold and purchased, and statements of annual stocktakings, and that a failure or omission by a debtor to have kept such books should be punishable only in the event of his becoming bankrupt and of the liquidated debts proved in the bankruptcy exceeding 200*l.* in amount, and no prosecution of a debtor for such failure or omission should take place before the lapse of two years from the passing of the law. The committee also recommended that the existing law should be amended in a number of other particulars, among which was a provision to the effect that it should be held to be a criminal offence for an undischarged bankrupt to obtain credit for more than 10*l.* without disclosing the fact of his bankruptcy, and that it should be a misdemeanour, punishable by imprisonment, for an undischarged bankrupt to trade under an assumed name or in the name of any other person, firm, or company unless his true name and the fact of his bankruptcy were disclosed to those with whom he dealt.

Therapeutical Society.

A MEETING of the Therapeutical Section of the Royal Society of Medicine was held on Tuesday afternoon, December 7, when Mr. H. Wippell Gadd submitted a report on

A Drug Known as "Kangalugi."

The Society had asked the author to examine the drug, which Dr. J. E. S. Old, of the British Central Africa Protectorate, had reported to the Society as an ingredient in a native remedy for African tick or spirillary fever. The drug is the root of a shrub, and is also used with others in the treatment of rheumatism, elephantiasis, the vomiting that accompanies a distended abdomen, and as an aphrodisiac (for men only). It is taken internally in the form of a decoction. From leaves and root sent by Dr. Old, Mr. E. M. Holmes, Curator of the Museum of the Pharmaceutical Society, identified this kangalugi plant as *Deinbollea Nyikensis*, Baker (N.O., *Sapindaceæ*), described in the "Kew Bulletin," 1897, p. 249. From the root Mr. Gadd isolated a white powder of a crystalline character, which yields, on hydrolysis, a large amount of glucose, and is probably a saponin. Dr. W. E. Dixon examined this physiologically, and reported:

"It is extremely irritant, and set up vomiting and diarrhœa from direct irritant action on the alimentary canal. In small doses it produces little effect; it is true that it has a digitalis-like action on the heart, but I have failed to show that it is absorbed in any but the smallest amounts when taken by the mouth. On the whole it was very disappointing, and quite unlikely to be of any practical value."

Mr. Gadd therefore concluded that kangalugi-root does not seem to be worthy of prolonged research, as it is not likely to offer any advantage over the drugs already in use in European practice.

Other Papers.

Drs. Reginald G. Hann and R. A. Veale reported on a case of poisoning with a drachm of a rat poison containing 4 per cent. of phosphorus. It had been taken with the object of producing abortion. A *post-mortem* examination showed fatty degeneration of the liver and other diseased conditions.

Dr. Herschell opened a discussion on the use of preparations of lactic acid bacilli. He said it is an unfortunate feature of the present day that when any new remedy is introduced it is promptly boomed by manufacturing chemists and others, and recommended for many conditions for which it is not suitable. Lactic acid preparations he mentioned as an example. He stated that he had examined many preparations now on the market which were said to contain the Bulgarian bacillus, but in only two or three had he found this organism. The majority of the tablets on the market contain, he said, no Bulgarian bacilli, but Hüppe's bacillus, some yeast, and, in some cases, putrefactive organisms. Some largely advertised chocolate creams were found to contain no cream and no Bulgarian bacilli.

These remarks were confirmed by subsequent speakers, particularly by Dr. Bullock, who had been informed personally by Metchnikoff that the Bulgarian bacillus was particularly short-lived, and could not be expected to be preserved in an active state in many of the preparations which were said to contain it.

Medical Gleanings.

Digitalis Substitutes.

The "B.M.J." (Epitome, November 27, p. 83) quotes observations by Grober on digitalis substitutes, the conclusion being that—

"none of them can always take the place of the infusion or of the powdered leaves; where patients have already had large doses of the preparations of digitalis or its substitutes, and small further doses only can be given, the author finds the action can be best controlled if the powdered leaves are used. He has also gained the impression that in some cases better results are attained with digitalis than with the isolated constituents, and for this reason he welcomes the introduction of digipuratum."

Alcohol and Immunity.

Dr. P. R. Parkinson describes in the "Lancet" (1909, II., 1580) a series of experiments carried out in the Wellcome Physiological Research Laboratories as to the effect which alcohol has upon the animal economy in the resistance to disease. Rabbits were employed, the alcohol being directly injected into the vein of the animal used. It was found that small non-toxic doses of alcohol induced a rise of the opsonic index, but it was of short duration; toxic doses reduced the index, continuous moderate doses lower the index, and chronic alcoholism produced a marked lowering of the index. These conclusions were confirmed by vaccinating similarly treated animals.

The Common Cold.

The "B.M.J." mentions some observations by Dr. A. Kühn on the prevention of colds. He seems to think that a cold is not usually caught from another person, but that a chill affords to microbes already in the nose, throat, or mouth the conditions favourable to their activity. This it does by producing an alteration in the cutaneous circulation, and indirectly modifying the usual resistance against infections. He concludes that if short exposure to cold is followed by a reactionary dilatation of the vessels, it never produces the state favourable to infection, the fortifying effect being due to the flushing of the part with blood in the reaction stage. The body must be kept warm, and this is particularly true in the case of children, as to whom he strongly condemns the "hardening" process that some faddist fathers and mothers subject their poor children to.

Pneumonia.

The period of incubation of pneumonia is exceedingly variable. Probably the pneumococcus is always present in everyone's body, and given favourable conditions it asserts itself. The "British Medical Journal" (1909, II., 1529) mentions two rapidly fatal cases. In one the patient was filling a bucket with water at the village pump at 5 P.M. and chatting to two men. Dr. Mills saw him then; at 7.15 the doctor was called to the man, and he died in six hours from pneumonia. In the other case a farmer, aged thirty-one, got a wetting on September 27, he worked all day on the 28th, then the doctor was called, and the man died next day, thirty hours after stopping work. In this connection it is interesting to note that Sir Almroth Wright, M.D., has succeeded in preparing a pneumonia antitoxic serum which Messrs. Parke, Davis & Co. are placing on the market.

Chloroform Narcosis.

A Query in the *C. & D.* of November 20, p. 785, regarding deaths from chloroform—viz., Have such patients obtained while inhaling chloroform sufficient air for the continuance of life?—had a prompt indirect reply from the "Lancet" (November 27, p. 1608), which, in dealing with a paper by two American physicians (Drs. Whipple and Sperry) on delayed chloroform-poisoning, remarked :—

"Research appears to prove the danger of chloroform in concentration and to emphasise that its safety lies, not only in avoiding the classic dangers of respiratory failure and undue fall in blood pressure, but also in restricting the quantity employed to the bare needs of anæsthesia. . . . Deep narcosis is seldom, if ever, needed in surgery, and certainly need never be greatly prolonged. It would be matter of regret if such work as that of Dr. Whipple and Dr. Sperry were read to mean that chloroform as such possessed intrinsic and uncontrollable toxic properties; to us it seems rather to add one more argument in favour of using chloroform in a scientific manner and by definite doses.

Too much chloroform means in most cases too little air, so that patients die "for want of breath."

Zedoary in Rheumatism.

Sir James Sawyer, M.D., in a communication to the "Prescriber," says he is using a compound tincture of zedoary for internal administration in rheumatism. It is made from the following formula in Beasley's "Pocket Formulary":

Tinctura Zedoariæ Composita (*Wedel's Essentia Carminativa*).

Zedoary	ʒiv.
Calamus, galangal, of each ...	ʒij.
Chamomile, aniseed, caraway-seed, of each	ʒj
Bay-berries, cloves, of each ...	ʒvj.
Orange-peel, mace, of each ...	ʒiv.
Peppermint - water, rectified spirit, of each	℥xxiv.

In six days strain and add

Muriatic ether	ʒiv.

Sir James suggests that some of his brethren will essay and assay the therapeutics of zedoary too, so that we may mature some latter day opinions of its value.

Treatment of Diabetes by Fats.

Dr. Paul Rochaix ("Lyon Médical"), in discussing this subject, shows that fats are most useful in diabetes, and cod-liver oil emulsion answers the purpose, and gives the following as a formula modified for the use of diabetics :

Cod-liver oil	ʒivss.
Cherry-laurel water	ʒiij.
Orange-flower water	ʒj.
Carrageen	℥iv.
Oil of bitter almonds	gtt. iv.
Distilled water	ʒv.
Saccharin	gr. ij.

Emulsify in the usual way.

He adds that the simplest means to obtain an emulsion fulfilling the special conditions is to employ a substance already partially saponified, as in the following formula :

Castile soap (freshly prepared) ...	ʒss.
Cherry-laurel water	ʒv.
Orange-flower water	ʒx.
Saccharin	gr. iij
Olive or sesame oil, to make ...	Oj.

This may be flavoured with six drops each of oils of peppermint and lemon. The value of fats in diabetes depends on the fact that they are only converted into glycogen with difficulty, and they enable the diabetic subject to make the best use of his tissue albumin. They also accelerate the combustion of carbohydrates by reducing the hyperglycæmia.

Food for the Constipated.

The "Journal of Practical Dietetics and Bacteriotherapeutics" (I. 11, 166) states that foods suitable for the constipated are divisible into the following three groups :

(1) Food that leaves sufficient indigestible residues to stimulate peristalsis—viz., brown or wholemeal bread, ginger-bread eaten with honey or treacle, rye bread; vegetables such as cabbage, salsify, French beans, Brussels sprouts, sauerkraut, carrots, asparagus, boiled Spanish onion, spinach, salads, etc.; porridges of oatmeal, rye-meal, maize-flour, potato, and lentils. All these may not be found suitable in individual cases, so a selection must be made according to circumstances.

(2) Articles that provoke free intestinal secretion, thus rendering the fæces more liquid—viz., marmalade made with bitter oranges; this is particularly useful in that it is a tonic stomachic and the indigestible fragments of peel mildly stimulate the intestinal walls. Many jams have the same effect—*e.g.*, raspberry, strawberry, blackberry, and cranberry jam, tomatoes, and, in general, raw and cooked fruits of all kinds, grapes, apples, pears, and figs; honey, treacle, milk, sugar. Stewed French plums enjoy a reputation for their anticonstipating properties, but for this purpose the juice must be taken.

(3) Substances that exert a mechanical action on the intestine, such as oil, fats, butter, and fat cheese. These, however, must not be difficult of digestion or the desired effect will not be obtained.

Meat should be taken in moderation, preferably only once a day. Eggs and milk are to be avoided, except in strict moderation.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Indian Dolphin Oil and Ray-liver Oils.—Analyses by Mr. David Hooper of certain fish-oils are included in the appendix of the "Memoirs of the Indian Museum" (Vol. II., No. 1). The first oil is that yielded by the Gangetic dolphin (*Platanista gangetica*), which is used locally as an embrocation for rheumatism and as an illuminant. The yellow-brown oil possesses a faint fishy odour, and yielded the following constants: sp. gr., 0.921; acid-value, 21.36; saponification-value, 198.8; iodine-value, 106.9; percentage of fatty acids, 94.0; m.p. of fatty acids, 25.5°; acid-value of fatty acids, 205.0; iodine-value of fatty acids, 116.5. The livers of the following species —(1) white sting-ray (*Trygon microps*), (2) common sawfish (*Pristis perottetii*), (3) spotted shark (*Stegostoma tigrinum*), (4) shark ray (*Rhamphobatis ancylostomus*)—yielded oils giving the following constants:

	1	2	3	4
Specific gravity at 50° C.	0.914	0.900	0 910	0.909
Melting-point	22° C.	27°	26.5°	25.5°
Acid-value	0.98	1.0	1.16	1.13
Saponification-value ...	194.0	187.1	185.4	187.4
Iodine-value	124.7	92.9	123.2	118.5
Reichert Meissl	0.26	0.28	0.21	0.23
Fatty acids, per cent. ...	93.2	94.7	94.2	94.6
Melting point of ...	37.5° C.	39°	39°	39°
Acid-value of	203.4	192.2	189.9	190.4

The freshly expressed oils possessed an odour similar to that of cod-liver oil, and the colour varied from light yellow to reddish yellow. The livers of the above animals are of enormous size, that of the sting-ray approximating 90 lb., and that of the sawfish over 100 lb. All the livers are rich in oil, the hepatic tissue of the sting-ray containing 71.6 per cent. of oil. All the liver oils contained a cholesterol yielding a rose-red to a purplish-red colour with sulphuric acid.

From Schimmel's Report, November 1909.

BISABOLENE, a sesquiterpene discovered by Tucholka in oil of bisabol myrrh, and probably identical with limene isolated from lime oil by Burgess and Page, has been found in the sesquiterpene fractions of lemon oil and also in camphor oil. It is characterised by forming a trihydrochloride (melting-point, 79-80°), from which the sesquiterpene can be obtained by heating with glacial acetic acid and sodium acetate. It has a density of 0.8759, a refractive index of 1.4901, boiling-point 261-262° at 751 mm., and is optically inactive. The sesquiterpenes of pine-needle oil, bergamot, and opopanax are probably also identical with bisabolene.

CORIANDER OIL.—Besides *d*-linalool, which occurs to the extent of about 70 per cent., inactive pinene, *d*-pinene, and β-pinene have been separated, also *p*-cymene, dipentene, α- and γ-terpinene, and traces of terpinolene and phellandrene. Among the oxygenated constituents decylic aldehyde, geraniol, borneol, and their acetic esters have been identified.

CUMMIN OIL.—Cuminic alcohol, as well as cuminic aldehyde, has been isolated, and the hydrocarbon fractions contain *p*-cymene, *d*- and *i*-pinene, β-pinene, β phellandrene, and dipentene.

JUNIPER OIL.—Besides pinene and cadinene, an alcohol terpinenol has been isolated which also occurs in oils of cardamom and marjoram. Another alcohol has also been found which combines with phthalic anhydride, and has an odour resembling geraniol and borneol. It is probably a mixture of alcohols.

LIME OIL (hand-pressed).—The following characters indicate the limits observed by Schimmel & Co. for West Indian oil: Sp. gr., 0.878 to 0.901 (mostly between 0.880 and 0.884); rotation, +32° 50′ to +37° 30′; refractive index, 1.482 to 1.486; ester-number, 18 to 30. Residue on evaporation, 10 to 14 per cent.

MATICO OIL.—The leaves of *Piper angustifolium* are now rarely found in commerce, their place being taken by leaves of other species. Oils derived from *P. camphoriferum*, *P. angustifolium* var. *ossanum*, and *P. lineatum* have been examined by Thoms, who found camphor and borneol in the first two but not in the last variety. The oil from a new species, *P. acutifolium* var. *subverbascifolium*, yielded an oil having the following constants: Sp. gr., 1.10; rotation, +0° 21 8′; methoxyl-content, 21.8 to 22.1 per cent. Pinene was isolated and traces of dill apiol.

THYMENE, the terpene portion of ajowan oil, has been found to consist principally of *p*-cymene and γ-terpinene, with small quantities of α-pinene and dipentene. On oxidation of the terpinene fraction with potassium permanganate, an erythritol was isolated (melting-point, 236-237°), which, on boiling with dilute sulphuric acid, yielded a mixture of thymol and carvacrol, thus proving the relation between terpinene and thymol, the principal constituent of ajowan oil.

Optical Observations.

By a Chemist-Optician.

Obtaining a Legal Status.

REGARDING the scheme of the Manchester and North of England Optical Society to concentrate attention on obtaining a legal status for the optician, I, in common with other chemist-opticians, wish the movement every sucess. I may perhaps be permitted to express a hope that if legal recognition is eventually obtained it may be more completely guarded than are the rights of pharmacists. The great difficulty is that the ordinary retail optical business is small, and it takes all a man's time and energy to keep himself afloat, while those few who have large concerns have less incentive in agitating for improvements.

A Suggestion.

A MINOR improvement which I should like to suggest to trial-case manufacturers is to leave a few spare groves in the tray for any extra trial lenses or sundries which may be added afterwards. In a new trial-case just received, one of the flat pattern, covered in black morocco leather with a removable tray, no spaces are provided even for the Maddox rod, Maddox grove, double prism, chromatic test, and so on included with the set. Consequently these lie loose in the division occupied by the trial-frame, which does not tend to improve their condition after being in use for some time and rubbing and scratching one against the other. The same provision for storing these sundries ought to be made as for keeping the lenses, especially as they are more expensive to replace when damaged.

The Prescription-book.

THE proper record and keeping of prescriptions is every bit as important to the optician as it is to the pharmacist, although there is not the same legal obligation to do so. Every correction should be noted, with the name, address, age, etc., of the customer and history of the case, as far as possible whether the correction is from your own testing or from a prescription brought in to be filled. Several forms of prescription-books are on the market, some being very elaborate, and providing diagrams and space for the description of the appearance of the fundus when seen through the ophthalmoscope, results of retinoscopy, and so on. Personally I have a preference for a duplicate book, so that the duplicates can be sent to the jobbers with the order, which facilitates your own work as well as that of the wholesale house. Although most of them return the prescriptions with the glasses, it sometimes happens that this is not done, and there is always the risk of a loose sheet being mislaid or lost.

Obtaining Normal Vision.

ONE of the difficulties which the student and beginner in refraction experiences is inability always to enable the customer to read $\frac{6}{6}$. He has learnt that this is the normal vision up to which the sight should be brought, and naturally does his best to attain it. But frequently he is unable to do so, mostly in cases of myopia. The following recent example will show my meaning fairly clearly. The case was one of a youth, aged seventeen, and the retinoscope indicated myopic astigmatism. The customer's attention was then directed to the test types, and with the right eye alone he could only see $\frac{6}{60}$, with a −2.0 sph. he was brought up to $\frac{6}{18}$, and with a −1.0 cyl. in addition up to $\frac{6}{12}$, but no further improvement on this was obtained. The left eye was in better condition, and was brought up to $\frac{6}{9}$ with a similar correction. Now this case was being tested by a beginner under supervision, and when he found that he could not bring the right eye up to normal he went on piling up the *minus* lenses to 6.0, of course with no better results. In this case the next step was to use the Maddox rod, which indicated a 2 △ prism, and with this he could read $\frac{6}{6}$ with both eyes. This, however, was not ordered for general use, as in all probability the constant use of the *minus* glasses would correct such a defect, and it is not advisable to give prisms if they can be avoided. It is interesting, however, as showing exactly where the trouble lay, and such possibility must be borne in mind when the visual acuity does not reach the normal with the sphero-cylindrical correction.

Individuality in Advertising.

THE importance of advertising as an essential of modern business-building is becoming more and more recognised. The articles on the subject contributed by Mr. Thomas Russell and others to THE CHEMIST AND DRUGGIST and *The Chemists' and Druggists' Diary* 1909 have done much to make pharmacists intelligent advertisers. Tributes to the helpfulness of our advertising hints come to us from time to time from all parts of the world, and grateful subscribers send us their experiences and specimens of successful business-pullers of their own as a kind of a *quid pro quo*. One of the most notable of these that we have received recently is from Mr. Arthur D. Watson, and we publish some of his remarks and a specimen of his advertising style as a spur to others.

Mr. Watson tells us he has always been a strong believer in advertising, and that he has a bent in that direction is quite evident. For many years he pinned his faith to handbills mainly, but the *C. & D. Diary* article this year induced him to give newspaper advertising a trial. So at the beginning of the year he contracted with one of the local newspapers for a space for twelve months, stipulating that he should always have the same position. He says:

> One point was very firmly fixed in my mind, and that was that one must be *original*, and I wondered how I could manage to make my advertisement different from the ordinary run of advertisements. As I knew I should have the space for fifty-two weeks I thought my first advertisement should be one of New Year's greeting to my customers, and I conceived the idea of having it in the form of a typewritten letter. This seemed so satisfactory that I have continued it all along.

It will be seen at once, from the reproduction herewith, that Mr. Watson's announcement is distinctive both in matter and in style.

ARTHUR D. WATSON, M.P.S.,
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Tele. No. 4385.

12/3/09

My Message.

Did you catch a cold last week?

I wonder if, when you felt it coming on, you remembered what I told you on Jan. 8th about our Ammoniated Quinine Capsules.

THEY will cure a cold for you, and at once, because they go right to the root of the trouble

In Sixpenny Boxes from

Your Pharmacist,

Arthur D. Watson.

The imitation typewritten matter is 3 in. wide in the original, and appearing on a full page of ordinary type arrests observation at once, while the "Message" can hardly fail to be read each week. On this point Mr. Watson remarks:

> I am inclined to think this is paying *me*. I don't say it would pay another man. *Individuality* is the prime necessity in advertising, and it does not pay closely. Get an idea of to imitate another man too your own and run it for all you are worth. Change your matter frequently, but not your style of putting forth that matter. People associate one firm or man with a particular style. I think many men make a mistake in writing their advertisements. They sit down in a hurry and scribble something off and send it to the printer and call it an advertisement. No man keeps his books, or copies his prescriptions, or makes his bills out in that shoddy style. It is not an easy thing to write an advertisement. I have never yet written one that I didn't feel was capable of improvement, and my "copy" always goes through a tremendous amount of clipping and altering

And that, of course, is the whole secret. Advertising must be done as carefully, as conscientiously, as intelligently, and as persistently as any of the other necessary duties that mean success in commercial life.

THE TWO JOURNALS called "System" and "Modern Business" are to be amalgamated as "System and Modern Business" in January 1910.

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with Mr. Temple Franks, Comptroller-General of Patents, Designs, and Trade-marks, at the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form No. 7, cost £1, obtainable through any money-order office. The figures in parentheses refer to the classes applied for.

(*From the "Trade-marks Journal," November 17, 1909.*)

"SILVAX"; for a photographic chemical (1). By A. H. Gardner, 34 Nicholas Lane, London, E.C. 316,738.

"BORDER"; for sheep dips and washes (2). By McDougall Bros., 66 and 68 Port Street, Manchester. 316,275.

"PHENOCIDE": for all goods (2). By R. S. Clare & Co., Ltd., 8-14 Stanhope Street, Liverpool. 316,387.

Facsimile signature "DR. FAHLBERG"; for medicinal saccharin (3). By Fahlberg, List & Co., Schonebeckerstrasse 3, Salbke, Westerhusen, Germany. 314,896.

"FUMOGEN"; for all goods (3). By John Shaw, 89 Farringdon Street, London, E.C. 315,936.

"NUCLEOFERRIN": for medicinal chemicals (3). By Solurol (Thymic Acid) Co., Ltd., 59 Eastcheap, London, E.C. 316,580.

Portrait of applicant; for all goods (3). By H. A. Lisbon, 6 Standard Road, Bexley Heath. 316,640.

"RHION"; for a medicine (3). By William Heath, 34 Corn Market, Derby. 316,780.

"VI-QUININE"; for a medicine (3). By Anglo-Indian Drug and Chemical Co., 16 Market, Bombay. 317,191.

"INFALLOINT"; for an ointment (3). By Frederick Simmonds, 16 Abingdon Court, Kensington, London, W. 317,265.

"BIFETTE"; for optical lenses and scientific apparatus (8). By M. Bentzon, 188 Strand, London, W.C. 316,379.

"UWANTA"; for food, chiefly milk solids (42). By Wilts United Dairies, Ltd., Devizes. 316,680.

"GEARBESTOS"; for all goods (47). By Stern Sonneborn Oil Co., Ltd., 16 Finsbury Square, London, E.C. 317,222.

(*From the "Trade-marks Journal," December 1, 1909.*)

"£" on coin device; for borax (1). By Sterling Borax Co., Los Angeles, California. 306,687.

"RODINAL" (317,271), "URSOL" (317,283), "ISOLAR" (317,293), "UNAL" (317,295), for chemicals (1); "SOLAMIN" (317,300/1), for calcium carbide (1) and dyes (4); "BROMOCOLL" (317,291/2), for chemicals (2 and 3); "RESORBIN" (317,284), "ACIDOL" (317,296), "BOFOVERTIN" (317,305), for chemicals (3); "LAVENDIOL" (317,303/4), for chemicals (3) and perfumery, etc. (48); facsimile signature "R. ANSCHÜTZ" (317,306), for chloroform (3); "NAPHTOGEN" (317,302), for dyes (4); "IROLÈNE" (317,288), "NARCÉOL" (317,289), and "ORCHIDOL" (317,294), for perfumery etc. (48). By Berlin Aniline Co., Ltd., 26 Princess Street, Manchester.

"STAUPENOL"; for a veterinary medicine (2). By Krewel & Co., 33 Eifelstrasse, Cologne. 317,065.

"LIVELY POLLY": for all goods (2). By J. Hargreaves & Son, Ltd., 81 Binn's Road, Edge Lane, Liverpool. 317,364.

"FEBRINA"; for medicines (3). By Johnsen & Jörgensen, Ltd., 26 and 27 Farringdon Street, London, E.C 313,902.

"EUREKA CANCER CURE," and device; for a cancer remedy (3). By Belle de L. de Latoix, 16 Warwick Street, Regent Street, London, W. 315,120.

"CHASBRI"; for all goods (3). By C. Bright, 229 Melfort Road, Thornton Heath. 316,512.

"LIMLAX"; for an embrocation (3). By J. R. Hanson and S. E. Ould, 71 Southwark Street, London, S.E. 316,807.

"OMNOPON"; for all goods (3). By F. Hoffmann La Roche & Co., 184 Grenznacherstrasse, Bale, Switzerland. 317,126.

"EUQUININE"; for pharmaceutical products (3). By Zimmer & Co., Ltd., 46 Darmstadterlandstrasse, Frankfort-on-the-Main. 317,242.

"NEBULAGEN"; for medicinal chemicals (3). By John Shaw, 89 Farringdon Street, London, E.C. 317,620.

"VIOFLOR"; for essential oils (4). By R. Doumin, 3B Belsize Parade, Hampstead, London, N.W. 317,514.

"GOLD SEAL," and picture of alchemist; for non-alcoholic essences (42). By Clayton & Jowett, Ltd., 3 and 5 Concert Street, Liverpool. 316,539.

"PHOSPHOVA"; for food-substances (42). By Casein, Ltd., Sheepcote Lane, Battersea, London, S.W. 317,419.

Chemical Society.

A MEETING was held at Burlington House, Piccadilly, on Thursday evening, December 2, Professor Harold B. Dixon, F.R.S. (President), in the chair. There was a fair attendance of Fellows and visitors (the latter being formally welcomed by the President), but the representation of pharmaceutical chemistry is nowadays numerically inconspicuous.

The first paper was read by Mr. W. C. Ball, who described a new method for the

DETECTION OF SODIUM, CAESIUM, AND RUBIDIUM,

depending on the formation of complex nitrites of bismuth with two alkali metals. The most interesting of these reactions is probably that for sodium, which can also be used quantitatively. This depends on the fact that when a solution of bismuth-caesium nitrite is added to a solution of a sodium salt in presence of free nitrous acid, a highly-insoluble, yellow crystalline precipitate having the composition $5Bi(NO_2)_3,9CsNO_2,6NaNO_2$ is formed. As proving the delicacy of this reagent Mr. Ball stated that in a quantitative test, using 0.00988 gram of a sodium salt, he found by estimation with this reagent 0.0093 gram. Cobalt, nickel, and the heavy metals also give precipitates with this reagent, so they must be eliminated before applying the test for sodium.

THE ATOMIC WEIGHT OF CARBON

was the subject of the next two papers, contributed by Sir Edward Thorpe and Dr. Alexander Scott. Last session Dr. Scott made a preliminary communication to the Society on the determination of the atomic weight of carbon, by measurement of the ratio C : H : Br in tetraethylammonium bromide. This method gave a figure (12.017) slightly higher than that now generally used for carbon, and at the time Sir Edward Thorpe criticised Dr. Scott's results from this point of view. During the recess a paper by Genevan chemists was published in "Comptes Rendus," which stated that in weighing substances the comparative weights in air and vacuo of solid and powder forms vary, as a certain amount of air is occluded in fine powders. Sir Edward Thorpe is one of the International Committee of Atomic Weights, and Dr. Scott's 12.017 had been considered by the committee but not accepted. He now stated that Dr. Scott's conclusion led to two possible explanations—first, that the carbon atom varies in weight according to its environment, and, second, that Dr. Scott had overlooked some error in his work. He dismissed the first explanation as being not at present acceptable, and as to the second said that when he read the Geneva paper he thought it contained a possible explanation. Accordingly he worked out a calculation for error due to occluded air in the substances taken by Dr. Scott, and the deduction so worked out was almost exactly the difference between 12.00 and 12.017.

This demonstration was frequently applauded, and it looked as if no more remained to be said, and that Sir Edward Thorpe had touched the spot. But the director of the Davy-Faraday Research Laboratory is one of the most accurate workers in this country, and not the sort of man to overlook sources of error. He now took up Sir Edward's points one by one, quickly disposing of the occlusion of air theory. Taking the amount of error on this account worked out by Sir Edward, he explained that if the amount of air stated had been occluded in the powder it was equal to 27 cc. in 10 grams, and naturally would have fizzed when dropped into water, which it did not; and an assistant had repeated the Genevan chemists' experiments with totally different results, and other experiments were described which disproved the occlusion of air theory. The substance of Dr. Scott's reply was, therefore, that (1) the error due to the occlusion of air is by no means so large as the Genevan scientists maintain, and (2) the error, so far as his own determinations are concerned, was avoided, since his weighings were essentially different weights of ammonium bromide and tetraethylammonium bromide, and that both these substances were in about the same state of division when weighed, and, furthermore, were kept *in vacuo* several days before being weighed.

The discussion between these two eminent chemists carried the proceedings well past ten o'clock, and the President hesitated to take other papers, but ultimately called on Dr. Barger, who told about his

SYNTHESIS OF HORDENINE,

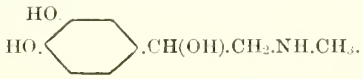
the characteristic alkaloid of barley. The raw material used was phenylethyl alcohol, which, since it was discovered by Schimmel & Co.'s chemists to be a regular constitutent of the aqueous distillate obtained in making otto of rose, has been put on the market. This substance was converted into phenylethyl chloride, then nitrated in the *para* position; the chlorine atom was next replaced by a dimethylamine residue, and finally the nitro-group was reduced and diazotised, giving rise to hordenine. The sequence of changes was therefore as follows :

$$C_6H_5.CH_2.CH_2OH \rightarrow C_6H_5.CH_2.CH_2.Cl \rightarrow$$
$$NO_2.C_6H_4.CH_2.CH_2.Cl \rightarrow NO_2.C_6H_4.CH_2.CH_2.N(Me)_2$$
$$NH_2.C_6H_4.CH_2.CH_2.N(Me)_2 \quad OH.C_6H_4.CH_2.CH_2N(Me)_2$$

Mr. Frank Tutin was finally called upon by the President to give the gist of a paper from the Wellcome Chemical Research Laboratories, by himself, Frederic W. Caton, and Archie C. O. Hann, on

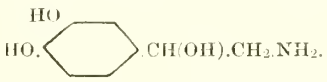
SYNTHESES IN THE EPINEPHRINE SERIES.

In this it was stated that inasmuch as the base epinephrine, which possesses a constitution represented by formula I., has so valuable a physiological action, it appeared to be of considerable interest to prepare certain substances related to it, in order that their properties might be physiologically investigated.

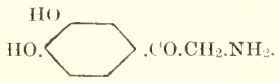


I.

It is already known that the ketone corresponding to epinephrine is physiologically active, as are also the primary amines (II. and III.) corresponding to both these compounds.

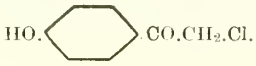


II.

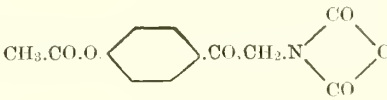


III.

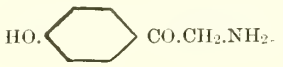
The authors, therefore, endeavoured to prepare bases analogous to the above-mentioned primary amines, which would contain only one hydroxyl group in the benzene nucleus. For this purpose ω-chloro-*p*-hydroxyacetophenone (IV.) was prepared, but as this compound could not be caused to condense directly with ammonia, recourse was had to the use of potassium phthalimide. The *acetyl derivative* of the above-mentioned chloro-ketone was heated with potassium phthalimide, when the *phthalide derivative* (V.) was obtained. The latter compound, on hydrolysis, yielded the desired *ketonic-base* (VI.), which, on reduction with sodium and alcohol, yielded *β-p-dihydroxy-β-phenylethylamine* (VII.).



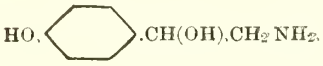
IV.



V.



VI.



VII.

Both of the last-mentioned bases (VI. and VII.) have been tested in the Wellcome Physiological Research Laboratories, where it has been ascertained that they have a pronounced action on the blood-pressure when injected intravenously. The effect of the reduced base (VII.) is the more powerful, but it possesses only about one-fifth of the activity of *p*-hydroxy-*β*-phenylethylamine, which has been shown by Barger to be an important active principle of ergot.

New Fellows.

In the course of the evening there was a ballot for the election of Fellows, and sixty-one were elected. They included the following: Mr. J. D. Anklesaria, Ph.C., Ahmedabad, India; Mr. D. W. E. Barker, pharmacist, Wrexham; Mr. H. F. Bottomley, Sanitas Co.'s laboratories; Mr. G. P. Forrester, Darmstadt; Mr. A. J. Harvey, E. Cook & Co.'s laboratories; Mr. S. B. Cortis-Stanford, Dalmuir; Prof. Dr. Hermann Thoms, Berlin-Steglitz; Mr. J. G. Tingle, Nauru, Marshall Islands, Central Pacific; Mr. N. Waliaschko, Magister der Pharmacie, Leipzig; and Mr. Charles Tapp, pharmacist, Cradock, C.C.

Society of Chemical Industry.

LONDON SECTION.

Dr. J. Lewkowitsch took the chair at a meeting of this Section held at Burlington House, Piccadilly, W., on Monday evening, December 6.

Deaths.—After the minutes had been read, the Chairman referred to the death of Dr. W. J. Russell and Professor Graham. Although Dr. Russell's early work was on purely scientific subjects, his later researches on photography come within the purview of the Society. Professor Graham was Professor of Chemical Technology at the University College. At an inaugural meeting of the Section, some twenty years ago, Professor Graham read a paper on "Lager Beer."

Mr. Baker Resigns.—The Chairman then announced that Mr. Julian L. Baker, who has filled the office of Hon. Local Secretary for the past six years, had been compelled by pressure of work to resign that post. Mr. Grant Hooper proposed, and Mr. W. F. Reid seconded, a vote of thanks to Mr. Baker, and the last-named, in reply, caused some amusement by referring to the experience and knowledge of humanity he had gained while holding the office.

Artificial Silk.—Mr. W. P. Dreaper was then called upon to read a paper on "Artificial Silk," this being one of the series of lectures on chemical technology arranged in accordance with Dr. Lewkowitsch's scheme. This was an interesting *résumé* of the subject, although the lecturer was sometimes hampered by the fact that he was dealing with processes often carried out secretly. The manufacture of artificial silk is largely the monopoly of Continental chemists and shows large financial returns. It is founded on the chemistry of the colloids, one of the most interesting branches of the science. The success of the industry is shown by the fact that the silk is sold for months ahead. The three main processes employed at present are (1) the nitro-cellulose, (2) the cupro-ammonium, and (3) the viscose. To Chardonnet is due the invention of the nitro-cellulose process, in which guncotton is taken as the starting-point, and which process accounts for 50 per cent. of the world's output. Chardonnet spent 70,000*l.* before he was able to make his method a commercial success. Artificial silk is specially adapted for particular purposes, such as braid-making. New uses are constantly being found for this product, it being employed in cases where natural silk is unsuitable. An English company which was started to work the Chardonnet process in this country failed to make a success of the manufacture owing, it is stated, to [illegible]

Mr. Dreaper then referred to some of the difficulties of the process and the improvements patented by other workers than Chardonnet. Lehner, for instance, modified the composition of the solution, so that a lower temperature could be employed, in this way minimising the danger of fire. The cupro-ammonium process was first suggested in 1890, Pauley, Fremley, and Bronnet afterwards making it into a commercially successful method. The German Glanzstoff company have erected works in this country, which will be in working order in January. The factory is expected to turn out a ton of "glanzstoff" per day, and will give employment to 2,000 persons. The lecturer then gave some details of the Chardonnet process, mentioning that the denitrification method is a secret one. Chardonnet silk has been sold for 40f. per kilo., and is now worth 18.20f. The cupro-ammonium process depends on the solution of cellulose in ammoniacal copper-sulphate solution. Many of the details are carried out in secret. The coagulating solution is in one method 15 per cent. sulphuric acid. An important advance in the composition of this liquid was the discovery of the advantages of adding glucose. The viscose process is founded on the 1892 patent of Messrs. Cross, Bevan and Beadle as applied to the production of filaments by Stirling in 1903. Artificial silk is being made at Coventry by this process in large quantities. The 1892 patent having been extended by the Privy Council is still in force. It was mentioned that the squirting jets in the viscose process are made of platinum. Cellulo-silk was next referred to. This is the process which the lecturer is interested in, but the details are kept secret. A great advance has been made in this process by the production of very fine filaments, for which special uses will doubtless be found. It resembles natural silk in strength to a remarkable degree. Ten million yards of filament have to be squirted to produce a pound of cellulo-silk. The gelatin and casein processes were passed over; they are not being worked commercially.

Finally Mr. Dreaper dealt with some of the types of machines employed and the dyeing properties of the product. Artificial silk being a cellulose product is dyed by the same methods as cotton, hence beautiful cross-dyeing effects can be obtained for mixtures of natural and artificial silk. Many samples were passed round the room, among them being specimens of artificial horsehair. A discussion followed, in which the Chairman, Mr. Bronnet, Mr. Cross, Professor Huhner, Dr. Cain, Mr. W. F. Reid, and Mr. O. Guttmann took part. It was generally agreed that artificial silk had not replaced the natural product, but had been applied to new uses. Some references were made to processes of recovering solvent alcohol and ether from the air, the hopeful methods being apparently those in which the air is passed through sulphuric acid or calcium-chloride solution. Mr. Cross stated that the production of artificial silk is now 5,000 tons per annum. Mr. Reid asked whether the methods had been applied to the production of silk for fishing-lines and artificial bristle. Dr. Cain suggested "selvis" for the product, and Mr. Guttmann's proposal was "lustrose." Mr. Dreaper briefly replied, and was thanked for his paper.

"THE C. & D. DIARY, 1910."

Each copy of this *Diary* sent out contains a coupon with two postcards for return to us, as a result of which competitors may obtain a share of ten guineas in prizes which we offer. One card is for answers to the following five questions:

Vote for your favourite business house among those advertising in the *Diary*.

Vote for your favourite business house not advertising in the *Diary*.

What page among the *Diary* advertisements do you like best?

Which is the best designed advertisement in the *Diary*?

Which advertisement in the *Diary* is best calculated to induce business?

The second card provides an exercise in sentence-forming, the idea being to take any twenty words occurring in the *Diary* advertisements, and form with them a readable sentence. At least six half-guineas will be appropriated to the best sentences received. The competition is open to *C. & D.* subscribers, their staffs and families. Cards must be posted in Europe not later than January 15, 1910, and a fortnight later in other parts of the world. The reverse of the third part of the card contains imperial and metric equivalents. Subscribers are requested to note that if they require extra copies of the *Diary* early application should be made to the Publisher. The price to subscribers is 2*s.* 6*d.* per copy, to non-subscribers 3*s.* 6*d.*

Festivities.

A Cinderella Dance.

A large gathering of members of the staff of Messrs. Burroughs Wellcome & Co. and their friends inaugurated the festivities of the winter season by a very pleasant Cinderella dance at the Cavendish Rooms on December 3. The excellent music and admirable catering contributed materially to a thoroughly enjoyable evening, some specially selected Snow Hill quadrilles being a feature of the programme. Mr. Pearson, the firm's general manager, was present, and entered heartily into the spirit of the entertainment. Mr. Linstead made an efficient M.C.

Social Evening.

The Birmingham branch of the National Union of Assistant Pharmacists met for social purposes at the Rodway Rooms, Bristol Street, Birmingham, on November 24, when an excellent programme was enjoyed. During the interval the Hon. General Secretary (Mr. E .S. Francis) addressed the meeting outlining the future policy of the Union, which, he said, is based upon a trade union principle, so that hours and wages are vital factors. He stated that the N.U.A.P. is watching closely the movement of apothecaries' assistants to secure registration under the Pharmacy Acts.

Smoking Concert.

The annual "smoker" held by the Pharmaceutical Football Club took place at the Holborn Restaurant on December 1, when Mr. Edmund White, B.Sc., F.I.C., presided over a large gathering, which included Professor Greenish and Mr. E. T. Neathercoat. The artistes included the students' favourite, Miss Ruby Wilson, who received a splendid reception, while Miss Emilie Haye also charmed her audience with flights of fancy into the realms of fairyland. Mr. Will Edwards was humorous, and Mr. Arthur Melrose gave whistling selections. The toast of "The Football Club" was proposed by Mr. Warner, and responded to by Mr. Elton. Mr. F. Curtis was responsible for the programme.

Manchester Optical Society.

This Society, to which many chemist-opticians belong, held a very successful social evening at Manchester on December 1. Close upon sixty members and friends were

present. Mr. J. Cleworth took the photograph here reproduced for The Chemist and Druggist. Mr. J. C. Kidd (the President) is indicated by the figure 1, and another chemist, Mr. Hershberg (Hon. Secretary), by the figure 2.

Hewlett's Social.

The staff of Messrs. C. J. Hewlett and Son, Ltd., Charlotte Street, London, E.C., held their annual dinner and social evening on Dec. 4 at the Talbot Hotel, London Wall, E.C. Mr. E. J. Millard, F.C.S., the managing director, occupied the chair, his co-directors (Mr. Vivian C. Hewlett, Mr. J. D. Allman, and Mr. Morris W. Stranack) supporting him. A company of 70 enjoyed an excellent dinner, and after honouring the loyal toast, drank that of "Success to C. J. Hewlett and Son, Ltd.," proposed by Mr. F. Gibbons. The Chairman, before responding, read a telegram expressing good wishes from Mr. John C. Hewlett. Each of the directors also replied. During the ensuing concert the "Owl" Quartette (Messrs. V. C. Hewlett, M. W. Stranack, A. Street, and W. Pile) distinguished themselves again with the glees "Sweet and Low" and "Johnnie Schmoker," which were rendered admirably. The humorous songs of Messrs. Will Cragg, Jack Oliver, and E. Thompson were also highly appreciated. A banjo solo by Mr. H. C. Burton, and violin solo by Mr. E. C. Moody occasioned much applause, while Mr. Frank Allman delighted the audience with his recitations. In returning a vote of thanks to the hon. sec., Mr. Gillard, the Chairman said the evening was the most successful of the series, and he was deeply gratified at the surprising amount of musical talent possessed by members of the staff.

Bradford Dinner.

The annual dinner of the Bradford Chemists' Association took place on December 1, at the Great Northern Victoria Hotel, and was a pronounced success. The President (Mr. J. Gordon) occupied the chair, and others supporting him were: Ald. A. S. Campkin, J.P. (Cambridge), Dr. Rabagliati, and Messrs. Broadhead (Batley), D. S. Priestley, A. S. Dean (Keighley), E. E. Haslegrave (Leeds), H. R. Jackson, Brierley (Halifax), M. Firth, the Hon. Sec. (R. T. Silson), and R. W. Silson.

Mr. R. T. Silson proposed the toast of "The Pharmaceutal Society," in which he referred to the adverse criticism of the Society, due to the unfortunate judgment in the Mercer case. He thought it would be quite possible for the Society to get a verdict favourable to themselves. A good many drug stores have altered their signs as a consequence of the judgment. Mr. Silson also referred to the Pharmaceutical Parliamentary representation scheme, and said that Bradford has contributed 10*l*. Ald. Campkin, in responding, said the recent judgment in the "pharmacy" case had received very full consideration, but, in view of certain circumstances, and having regard to the fact that another Society is suffering under a similar decision, it had been decided not to appeal in this case. This, however, did not bar the Society from taking proceedings under more favourable circumstances. There is no denying the fact that the title pharmacist has been obtained for registered men. In regard to the granting of licences, it is a question as to whether the pharmacist is not somewhat to blame for not stocking some of the poisonous preparations which are required by horticulturists. He urged that the local authorities should be impressed with the point that there are certain conditions to be complied with by persons obtaining licences. Mr. J. Calvert proposed "The Guests," and Messrs. Broadhead (Batley), Dean (Keighley), and F. Pilkington Sargeant responded. "The Association" was proposed by Mr. Broadhead and replied to by the President.

Nottingham Dinner.

The annual dinner of the Nottingham and Notts Pharmaceutical Association took place on December 2 at the Victoria Station Hotel, Nottingham. Mr. W. Gill (Vice-President) took the chair in the unavoidable absence of the President (Alderman R. Fitzhugh, J.P.). There were also present Dr. A. Fulton (President of the Nottingham Medical Association), Dr. C. H. Cattle, Mr. S. F. Burford, F.C.S. (Leicester), Dr. D. M. Livingstone and Mr. W. C. Brinson (Chesterfield), Mr. J. T. Humphrey (London), Mr. H. Hickey (Parke, Davis & Co.), Mr. Alan Francis (British Drug Houses, Ltd.), Mr. C. A. Bolton, Mr. A. E. Cerlin, Mr. A. Middleton, Mr. F. Ross Sergeant, Mr. F. Gill, Mr. G. Wright, and Messrs. J. G. R. Parkes, D. Ellis, C. F. Carr, H. T. Wilson, A. E. Beilby, W. Frost Wood, H. Brown, C. H. C. Cadge (Bingham), W. Meakin, B. Coppock, T. Freeman, and E. E. H. Turton (Hon. Secretaries), R. Stewart Adamson, L. J. Holmes, C. Beilby, jun., G. E. Marfit (Leicester), T. A. Williamson, W. Lee, W. A. Burnage, H. Middleton, G. Whysall (Grantham), R. P. Crecraft, J. Smith, H. A. Dickenson, H. Smith, and H. G. Price. The Chairman referred to the absence of the President through illness, and stated that Alderman Fitzhugh is making such progress that he hopes to

resume his ordinary mode of living before long. Mr. Fitzhugh was Secretary of the Association when it was founded forty-one years ago. The President's health was drunk, and a message sent to him from the gathering.

Mr. Meakin proposed the toast of

THE PHARMACEUTICAL SOCIETY.

He said that the word "pharmacy" had been a much-discussed word since the passing of the Poisons and Pharmacy Act, 1908, an Act which was to give them so much. Although things appeared to be in a tangle, for his own part he did not see that they could blame the Society for what appeared to be a serious oversight in what otherwise would have been a perfect Act of Parliament. Mr. Humphrey, in reply, mentioned that on the previous day the Council had decided that no further action could be taken in the Mercer case. The question was raised by one of the members of the Council who had written to the Chairman of the Law Committee (Mr. Walter Hills) and told him that a distinguished King's Counsel had expressed the opinion to him that if the case was taken to appeal the Council had a sporting chance of being successful. The matter was gone into very carefully, and the Council came to the conclusion that the sporting chance did not exist.

THE MEDICAL PROFESSION

was proposed by Mr. Eberlin, who said that the history of the medical profession had always appealed to him by reason of its interest and the part it plays in human affairs. After referring to the sale of proprietary medicines, which, he said, is on the increase, Mr. Eberlin said that Nottingham had produced some very famous men, including Dr. Thornton and Dr. Deering, celebrated antiquarians and archæologists, who had compiled the only two histories of the county that are regarded as authoritative. The names of Dr. Marshall Hall, the late Dr. Ransom, Dr. Carter, and Dr. Charles Bell Taylor were mentioned, Mr. Eberlin remarking that they in Nottingham never quite appreciated Dr. Ransom, who held a high position among scientists, and that in the judgment of men like Professor Huxley and Dr. Tyndal. Dr. Fulton, in replying, said he was rather strong on the question of trades union. He did not think it a discreditable thing to belong to a trades union; and it was simply a reverse of those historical and respectable institutions—the guilds. Mr. W. C. Brinson proposed "The Association," and the toast was acknowledged by Mr. A. Middleton, who remarked that he had been a member of the Association since 1870. Mr. F. Ross Sergeant gave "The Visitors," which was acknowledged by Mr. Alan Francis (London) and Mr. Burford (Leicester). Mr. Beilby submitted "The Health of the Chairman," which the Chairman briefly acknowledged. The toasts were pleasantly interspersed with music by the Elysian Glee singers.

Bath Dinner.

The annual dinner of the Bath Pharmaceutical Association was held on December 8, at Fisher's Restaurant, and was attended by a large and representative company. The President of the Association, Mr. W. J. Hallett, presided, and the guest of the evening was Mr. J. F. Harrington, President of the Pharmaceutical Society. The company included the following: Messrs. J. G. Hawes, A. C. Olds, W. J. Spurway, Luther Wilson, F. R. Stent, Dickinson, A. H. Cooper, F. E. Cooper, H. K. Pryke, B. John, D. A. Evans, A. L. Snow, J. W. Sampson, D. J. Williams, H. Norris, Riches, H. W. T. Gedge, E. W. Loveless, F. S. Moore, Sare, and Campbell. The toast of "The Pharmaceutical Society of Great Britain" was proposed by Dr. R. J. H. Scott, who congratulated the Society on the manner in which it had attained the objects for which it was founded, and on its fine school in Bloomsbury Square for the instruction of students in botany, chemistry, and other subjects related to their profession.

Mr. Harrington, who was cordially welcomed, in reply, said there seemed to be a certain epidemic of discontent going on throughout the country amongst pharmacists. He did not say that that epidemic was not, perhaps, justified. In a Council such as theirs it was almost impossible for them to tell them of all they were doing. If they did they would only play into the hands of those who they did not want to tell everything that was going on. Some little time ago the chemists all through the country seemed to think that they were going to get into trouble over their scales, owing to instructions issued by the Board of Trade; but he got his friend Mr. Edmund White, a member of the Council, to interview the head of the department concerned, Mr. McMahon, and the result was eminently satisfactory. If any of them had any trouble in this matter, let them report to Bloomsbury Square, and they would undertake to see that they were not troubled unnecessarily and improperly. As to the Mercer case, the President said he approached a reference to it with somewhat nervous feelings. The members of the Council for many years had had some doubt as to whether they could appropriate that particular word solely and wholly to themselves. Ever since he had been a member of the Council the question had continually cropped up as to testing whether the word "Pharmacy" applied solely to the building of a chemist. After Mr. Herbert Samuel's pronouncement that "pharmacy" solely and wholly belonged to the word "pharmacist," there was such a stir in the country that the Council felt obliged to test the question. A very clear case was taken in the Mercer case, but, as they knew, the verdict had gone against them. Since then the Council had received a large number of resolutions of censure and letters of abuse—as though the members of the Council had given the verdict instead of the learned judges. The origin of these resolutions appeared to have been four young men who were members of the Chemists' Assistants' Association of London. They met in an impromptu manner, and, without considering the case properly, passed a resolution calling upon the Society to appeal in this case. It was a wonder to him that they influenced chemists throughout the country and different associations to take them seriously. They had found that if they did take this case to the House of Lords, and if they won—though he felt sure that they would not—the word "pharmacy" would be secured to about 2,000 pharmaceutical chemists, who would be allowed to use it; and about 14,000 chemists and druggists, who were registered, could not use the title, and those of them who had it above their doors would be compelled to remove it. He could not tell them whether or not they had heard the last of this case. They were largely influenced in taking it up by the recent action of the dentists, who prosecuted a man not qualified for calling his place a dental surgery. The dentists won their case, and the Pharmaceutical Society were influenced to follow in the hope that they might appropriate the word pharmacy. The dentists, on an appeal, had lost their case, but they were going on with it. Whether they would be able to persuade the dentists to associate themselves with them in testing this case, he did not know. Since the action was first started, Mr. Mercer had been to Bloomsbury Square and passed his Minor examination, and he (the President) was told that Mr. Mercer had now changed his opinion, and that he now said that the word pharmacy should belong to those who had passed the Minor examination. (Hear, hear.) With regard to the issue of licences to unqualified men to sell poisons, Mr. Harrington said he should like to impress upon them that these licences were only used for the sale of nicotine and arsenic for agricultural and horticultural purposes. The originators of the Act never intended that the licences should be issued in the way they had been issued; but there the Act was, and they must make the best of it. Only that morning he was gathering evidence and getting ready a report which they were sending to the Government on this question. However hard this Act might be upon them (and he believed it was a most unjust Act, because there was never any necessity for it), he could assure them that if it had not been passed in 1908, by this time they would have had another Act which would have made the sale of poisons almost a free trade for agricultural and horticultural purposes, and would have knocked the bottom out of their Pharmacy Act. The President finished by referring to the Benevolent Fund and the Society's school at Bloomsbury Square.

Councillor John bore testimony to the admirable relations between the medical men and the pharmacists in Bath, and several doctors reciprocated kindly feelings.

Whist.

The annual social and reunion held at the Manchester College of Pharmacy on December 1 took the form of a tea-party, after which the company of about forty took part in a successful whist-drive. Mrs. Turner distributed the prizes to the successful players, who were as follows: Ladies—(1) Miss Newton, (2) Miss Redfern; (surprise) Mrs. Turner and Miss E. Hopewell; (consolation) Miss K. Mawer. Gentlemen—(1) Mr. Mason, (2) Mr. W. S. Ramsden; (surprise) Mr. Hough and Mr. Redfern; (booby) Mr. Reynolds. During the evening a cordial vote of thanks was given to Mr. Turner.

The Midland Pharmaceutical Association held a successfull whist-drive and supper at the Grand Hotel, Birmingham, on December 1 to inaugurate the winter session. The guests were received by the President (Mr. A. W. Southall) and Mrs. Southall, who later in the evening distributed the prizes. The company, which numbered over sixty, included Mr. and Mrs. J. Wakefield, Mr. and Mrs. E. Corfield, Mr. and Mrs. W. R. Dunn (Oakengates), Mr. and Mrs. Gibson (Wolverhampton), Mr. and Mrs. Coleman (Wolverhampton), Mr. and Mrs. E. W. Mann, Mr. Coverdale (Worcester), and Messrs. H. M. Tranmer, A. W. Gerrard, J. A. Radford, Jeffrey Poole, and H. Buckingham (Secretary). Mrs. Mann and Miss Haywood took the first and second ladies' prizes, while the consolation prize went to Miss Juckes. The successful gentlemen were Mr. H. M. Tranmer, Mr. C. F. Jarvis, and Mr. Taylor. The prizes were provided by the President, who was heartily thanked for his generosity, on the motion of Mr. J. Wakefield.

Winter Session.

Brief Records.

The Croydon Pharmacists' whist-drive last week was so successful that another is to be held early in the New Year. Mr. C. Dickinson did much to contribute to the success of last week's "drive" by his admirable arrangements.

Liverpool.—A meeting of chemists is being held at the Royal Institution, Liverpool, on Thursday evening this week, for the purpose of hearing Mr. J. Rymer Young's explanation of the inner meaning of the Mercer case. There is incipient rebellion in Liverpool pharmacy circles over this matter, and one object of the meeting is to get the better of this.

Cardiff. — At the meeting of the local Association on November 24 (see *C. & D.*, November 27, p. 828), a discussion on proprietary medicines was commenced in public and continued *in camera*. As a sequel to this, Mr. W. Woolley, the managing director of "Cupal," Blackburn, addressed the members of the Association on Wednesday evening. Next week, Mr. Harold Miller, of Cheltenham, chairman of "Ucal," is to have a hearing from the Association.

Watford and District Pharmacists' Association.—A special meeting was held on Monday, December 6, to consider what action should be taken with respect to the funeral of Mr. E. M. Chater, the President of the Association. The members present were Messrs. W. Hannaford (Vice-President), C. E. King, R. Bluett, R. Tween, W. G. Clarke, and R. Bennion (Hon. Secretary). It was unanimously agreed that a wreath should be sent from the Association, also a letter of condolence to the widow, and that those who could would attend the funeral.

The "Pharmacy" Case.—Mr. J. H. Bishop presided at a meeting of the Tunbridge Wells and District Association of Pharmacists held at 33 Mount Pleasant on Tuesday evening, November 30. It was decided to support the Birkenhead Association in its endeavour to bring about a better state of affairs and to try and procure a reversal of the decision in the recent "Pharmacy" case. The members deplored that such a state of affairs should have been allowed to occur, and it was remarked that the Tunbridge Wells Association have the satisfaction of knowing that they opposed the passing of the 1908 Act to the end. In lieu of the ordinary meeting in January it was decided to have a supper on Tuesday, January 25.

Great Yarmouth Pharmaceutical Association.—The monthly meeting of this Association was held at 156 King Street on December 2. The President (Mr. J. S. Shearman) occupied the chair, and there were also present Messrs T. B. Male, P. R. Hill, W. G. Poll, A. R. Davies, E. H. Kellam, Harvey Palmer, and A. E. Richmond. A letter from the Birkenhead Association was read, and it was ultimately decided to forward the following resolution to the Pharmaceutical Society:

> "That this Association views with alarm the increasing encroachments of our title as exemplified in the case of the Pharmaceutical Society *v.* Mercer, and hopes that the Council will take all necessary steps to preserve at least the title of 'pharmacist' and the name 'pharmacy' to duly qualified representatives."

Grimsby Pharmacists' Association.—A meeting was held at Walton's Hotel on Monday, December 6, Mr. Cor. Willson (President) in the chair. Messrs. C. H. Ashton, H. W. Colley, W. E. Humphrey, R. C. Johnson, W. G. Robinson, H. Schofield, T. D. Sneath, C. N. Chapman, and F. W. Heely were also present. On the question of Parliamentary representation it was decided to leave the matter of contributing to the fund to the individual member. The Birkenhead Association's resolution *re* "pharmacy" was supported. The Secretary announced that the widow of the late Mr. W. D. Mason desired to present a number of books to the Association. The President, in accepting these, warmly thanked Mrs. Mason for the gift. It was decided that a whist-drive and dance should not be held this session. A meeting of the "Buying Section" concluded the business of the evening.

Dewsbury Chemists' Association. — A meeting was held on December 6, Mr. R. Broadhead (Batley) presiding. There were also present Mr. John Day, Mr. G. M. Gutteridge, and Mr. G. Walker (Secretary), of Dewsbury, Mr. Jones (Morley), Mr. Blakeley (Birstall), Mr. J. Rhodes (Mirfield), Mr. S. N. Pickard (Ossett), and Mr. Barker (Heckmondwike). Communications referring to the "pharmacy" case and poison-licences were read from the Birkenhead and Wirral Chemists' Association and the North-East Lancashire Chemists' Association. On the suggestion of Mr. Pickard, sympathy was expressed with the object of the Birkenhead communication, but it was pointed out that no useful purpose would be served by passing the resolution which that Association desired. In regard to the suggestion of the North-East Lancashire Chemists' Association to hold a mass meeting to discuss the situation created by indiscriminate granting of poison-licences, it was felt that to have any effect action must be taken through the Council of the Pharmaceutical Society. Mr. Blakeley incidentally expressed the hope that a medical council would be formed to include pharmacy in its purview. The Chairman said he was afraid the Council is treating the applications of the Apothecaries' Hall men and Army compounders with levity.

Blackpool and Fylde Pharmacists' Association.—At the meeting on December 3 at Blackpool, the following members were present:—Messrs. Boothroyd (President), Mayson, Turver, Parker, Smithurst, Laurie, Johnson, Huddart, Sankey, Greenwood, and Bailey (Hon. Secretary). An animated discussion on the "Mercer" case culminated in the adoption of the following resolution:—

> That this Association urges upon the Pharmaceutical Council to take urgent steps to endeavour to nullify the recent adverse decision in the case of the Pharmaceutical Society *v.* Mercer, and also protect the interest of pharmacists under the Pharmacy Act, 1909, by pressing upon the Privy Council the necessity of inquiring strictly into the granting of licences under that Act.

In consequence of a letter from the North-East Lancashire Chemists' Association, it was decided that in the event of a mass meeting of pharmacists being held for Lancashire and Yorkshire, the Association should send delegates. It was agreed to open during the Christmas and New Year holidays as on Sundays. The annual dinner was fixed for January 19. Satisfaction was expressed at the appointment of Mr. Chater to visit local Associations, and a resolution to that effect was passed.

THE USE OF HUMAN FAT in mediæval times as a remedy for various ills the flesh is heir to is a fact familiar to all students of ancient formularies, but few, perhaps, are aware until how recent a date the practice persisted. A writer in a French pharmaceutical journal cites Balzac's "Mémoires de Samson" (a biography of the famous executions of 1793), published in 1830. Samson told a member of Balzac's family that his neighbours and others were perpetually asking him for human fat, and that to satisfy these singular applications he bought lard of the neighbouring pork-butcher, put it up neatly in earthenware pots with red paper covers, and the men who assisted him in his professional capacity retailed it at a handsome profit.

Spirituous Medicines.

THE following is the text of the circular statement issued by the Commissioners of Customs and Excise on Friday afternoon, December 3 :

E. R.

CUSTOMS AND EXCISE.

In the matter of the Budget Resolutions of the House of Commons passed in the year which commenced on the 1st day of April 1909, for the increase of the duties of Customs and Excise on

SPIRITS and TOBACCO,

and the duty of Customs on

BEER,

for the continuance of the duty of Customs on

TEA,

and for new duties of Customs and Excise on

MOTOR SPIRIT.

The Commissioners of His Majesty's Customs and Excise, acting upon directions received by them from the Lords Commissioners of His Majesty's Treasury, hereby give notice that, until the House of Commons shall resolve otherwise or a Finance Act for the year which commenced on the First day of April Nineteen hundred and nine shall be passed, the payment of the duties or increase of duties of Customs and Excise which were granted by Resolutions of the House of Commons passed since the First day of April Nineteen hundred and nine will after the date of this notice cease to be enforced upon the delivery of the Goods to which the said Resolutions relate; but the person whose name and address are shown upon the Customs entry as importer of any such Goods or who takes delivery of any such Goods without making a deposit with the said Commissioners of a sum of money equivalent to the duty or increase of duty as granted by the Resolutions, and any person to whom any such Goods may be consigned as owner, are respectively hereby notified that if Parliament shall hereafter determine that the duties specified in the said Resolutions are to be paid as from a date antecedent to the delivery they will become liable to pay the duties.

The Commissioners recognise that it may be a convenience to persons taking delivery of any such Goods to deposit at the time of delivery a sum equivalent to the duty or increase of duty upon the Goods as granted by the said Resolutions, and they are authorised by the Lords Commissioners of His Majesty's Treasury to give notice that they will be willing to accept a deposit of any such sum upon the terms that it will be repaid if the duty shall not be charged as from the date of the delivery by an Act of Parliament to be hereafter passed.

Dated this Third day of December 1909.

Signed by Order of the Commissioners of Customs and Excise,

W. G. LEWIS. } Secretaries to the said
J. P. BYRNE. } Commissioners.

Custom House, London.

What the Trade is Doing.

Immediately the terms of the Prime Minister's references to the payment of 1909-10 duties became known generally on Friday morning there was considerable inquiry as to what would be done in the drug-trade. Early in the day we had a consultation with the President of the Drug Club (Mr. John C. Umney), when the whole matter was thoroughly discussed. The terms of the Official Circular were not then before us, but Mr. Umney said, on behalf of his own firm, that they proposed, as regards the 3*s*. 9*d*. per proof gal. additional duty, to give all customers an undertaking to refund it *pro rata* on tinctures, fluid extracts, and other medicinal preparations supplied from that date, in the event of the Revenue authorities refunding the payments of additional duty. Mr. Umney and the Secretary of the Drug Club (Mr. Chas. Alex. Hill) were on 'Change in the afternoon, when the whole matter was discussed among wholesale druggists, and an arrangement on the above lines was provisionally arrived at. The decision was confirmed at a meeting of the Drug Club on Tuesday. The following circular letters illustrate what wholesale houses have sent to their customers :—

"Since the reading of the Chancellor of the Exchequer's Budget Speech on April 30, 1909, the additional duty on Spirits of 3*s*. 9*d*. per proof gallon has been collected under a Resolution of the House of Commons.

It is regarded as certain that the collection of this tax to December 3, 1909—the date of prorogation of Parliament—will be ratified.

The confirmation by the next succeeding Government of the additional duty of 3*s*. 9*d*. per proof gallon for the remainder of the present financial year, however, is not certain.

The official notice of December 3, issued by the Customs and Excise on the instructions of His Majesty's Treasury, clearly indicates that from this date until the passing of a Finance Act for the year which began on the 1st day of April, 1909, either payment or security for the payment of the additional duties set out in the Finance Bill of 1909 will be required.

In consequence of this instruction no alteration for practical purposes is made in the duty on alcohol.

In these circumstances, and in order to obviate the inconvenience which would result from a state of uncertainty for many weeks, we hasten to advise you that in the event of the next succeeding Government not confirming the additional duty of 3*s*. 9*d*. per proof gallon, we undertake to make a rebate in respect of spirituous preparations purchased from us corresponding to any rebate which may be allowed to us by His Majesty's Customs and Excise.

We sincerely hope that this arrangement, made for the convenience of our customers, will be acceptable and will secure as smooth a working of business as possible in the somewhat difficult circumstances.—THE BRITISH DRUG HOUSES, LTD."

"The Commissioners of His Majesty's Customs and Excise are still collecting the increased duty imposed by the last Budget on Alcohol. Owing to the uncertainty as to the duty that will be levied by the new Government on Alcohol, we beg to say that on all orders placed with us for Tinctures and other Spirituous Preparations at present rates, we will credit you on such orders *pro rata* as from this date [December 7] any reduction that may be made by the next Budget.—EVANS SONS LESCHER & WEBB, LTD."

"The official notice of December 3, issued by the Customs and Excise on the instructions of His Majesty's Treasury, clearly indicates that from this date until a Finance Act is passed for the year which commenced on the 1st day of April, 1909, either payment or security will be required for the payment of the additional duties set out in the Finance Bill of 1909. In consequence of this instruction, for practical purposes no alteration is made in the duty on alcohol, and under these circumstances we hasten to advise you that pending the passing of such Finance Bill, we undertake to give on all Spirituous Preparations a rebate corresponding to the rebate that may be returned to us during that period by His Majesty's Customs. We sincerely hope that this arrangement, made for the convenience of the Retailer, will be acceptable and will secure as smooth a working of business as possible under the somewhat difficult circumstances.—WRIGHT, LAYMAN & UMNEY (1909), LTD."

It is interesting to note that this principle of giving customers a guarantee to refund the additional duty originated in the wholesale drug-trade, and has been adopted in other businesses affected by the suspension of the Budget—tea, tobacco, and spirits. Practically all the leading distillers have decided to continue paying the full duty of 14*s*. 9*d*. per proof gal. pending settlement with the Revenue authorities. Several of them have issued circulars to this effect, adding that they will hold themselves responsible for the repayment of any rebate they may receive to the original purchaser on production of invoices issued by them on and after December 4. The Wine and Spirit Association has passed a resolution giving effect to this.

As regards exportation of tinctures and other spirituous preparations under drawback, the Revenue authorities are paying exporters rebate on the 11*s*. basis only, and giving a promise to pay the additional 3*s*. 9*d*. per proof gal. when that is authorised by Parliament. Nevertheless, wholesale druggists and other exporters of such preparations are invoicing to customers abroad at old duty-free rates, although they have to pay the 3*s*. 9*d*.

In order to avoid complications several manufacturers of essences have resolved to invoice goods containing spirituous preparations at previous prices, calculating the amount of spirit at the old duty, and adding the 3*s*. 9*d*. equivalent as a separate item, upon which, if necessary, the rebate will be allowed.

Trade Report.

NOTICE TO BUYERS.—The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of drugs and oils vary greatly, and higher prices are commanded by selected qualities even in bulk quantities. It would be unreasonable for retail buyers to expect to get small quantities at anything like the prices here quoted.

42 Cannon Street, E.C., December 9.

AS is usual towards the end of the year, buyers mostly prefer to limit their operations to current requirements, so that few movements of interest have occurred. A feature in the chemical and drug business is the advance of 250,000*l.* in exports during November, as shown by the Board of Trade returns. The chief alteration this week is an advance of 5*l.* per ton in double-distilled glycerin on the part of refiners, which was announced after the close of 'Change. Apart from this fluctuations are insignificant. Menthol is firm and in more general inquiry. Cascara sagrada remains easy; copaiba and ergot are steady. American peppermint oil is firm but quiet. Renewed buying of opium on U.S.A. account has taken place in Smyrna. Senega is firm, and new lemon oil is in fair demand for next year's delivery. The chief alterations have been as under :

Higher	Firmer	Easier
Ammonia sulphate Glycerin Linseed	Cottonseed oil Japan wax (c.i.f.)	Cascara Cocoa butter Galls (Persian) Pepper white

London Markets.

ACID, CITRIC.—Although there is very little demand, the market nominally is firmer, inasmuch as the English makers now quote 1*s.* 4½*d.*, but it is doubtful if they are sellers; second hands quote 1*s.* 3*d.*, and foreign 1*s.* 2¾*d.* to 1*s.* 3*d.* The better control of raw material by the Camera is said to be responsible for the nominal advance.

ANISEED remains firm at 23*s.* 6*d.* per cwt. for good Russian and 37*s.* 6*d.* for Spanish.

BUCHU.—Since the auctions the few remaining bales offered have been sold at about the sale rates.

BROMIDES.—It is stated on good authority that, according to the agreement which has been reached, the principal United States maker will not be in a position to ship to this country next year, but although this is an important factor, it is not anticipated that there will be any advance.

CAMPHOR (REFINED).—Steady, with sales of Japanese ¼-oz. tablets at 1*s.* 8*d.*, also 2½-lb. slabs at 1*s.* 6¾*d.* per lb. c.i.f. for February-March shipment.

The exports of both crude and refined from Japan during the eight months ended August were as follows:

	1907	1908	1909
Kin ...	2,461,639	1,455,878	2,266,194
Yen ...	4,068,000	1,690,000	1,916,000

[Kin=1.3 lb., and yen=2s. 0½d.]

CANARY-SEED is quiet. Turkish and cleaned River Plate are quoted 45*s.*, common Morocco 42*s.* 6*d.* to 44*s.*, good 48*s.* to 50*s.* per quarter.

CARAWAY-SEED is steady at 28*s.* 6*d.* to 29*s.* for common, and 30*s.* to 31*s.* per cwt. for good Dutch on the spot.

CARDAMOMS.—We understand that several shipments of cardamoms from India to the United States have been held up by the Customs owing to the fact that the weights have not been marked on the boxes as required by the new tariff law. It would appear that the goods were shipped just about the time of the enactment of the law, and it is supposed shippers were not aware of the new Customs regulations. The detention of the imports has given rise to annoyance as importers have been unable to deliver.

CASCARA SAGRADA.—Quiet, with spot holders offering at from 36*s.* to 37*s.* as to quantity, and for shipment the last business was done at 31*s.* c.i.f. The London stock at the end of November was 417 tons, as compared with 432 tons at the end of October.

CASCARILLA.—Subsequent to the auction eight bales lean stringy changed hands at 57*s.* 6*d.*; the value of bold, part silvery quill is 70*s.*

CINCHONA.—The shipments from Java to Europe during November 1909 amounted to 1,104,000 Amst. lb., against 1,138,000 Amst. lb. in 1908. The total shipments from January to November 1909 amounted to 14,145,000 Amst. lb., against 14,107,000 Amst. lb. in 1908. For the London auction next week, 648 bales are catalogued, including 400 African.

CLOVES.—At auction 105 bales Zanzibar offered, and 40 sold at 4¾*d.* for fair. Privately, the sales for arrival include November-January at 4½*d.* to 4 9/16*d.* to 4 17/32*d.*, and December-February at 4 9/16*d.*; also January-March delivery at 4 23/32*d.* and March-May at 4 13/16*d.*

COCAINE.—The market for hydrochloride remains quiet, but the Hamburg market for crude, owing to lack of demand is, if anything, easier. The arrivals of crude in Hamburg amounted to 287 kilos. in November, as compared with 244 kilos. in November 1908; while stocks were 1,880 kilos. at the end of November, as compared with 1,252 kilos. in 1908; sales last month were nil, against 220 kilos for the corresponding month of last year.

COPAIBA is steady, with filtered Maracaibo offering at 1*s.* 10*d.* per lb.

CORIANDER-SEED is selling at 8*s.* 6*d.* per cwt. for wormy, 9*s.* 6*d.* to 10*s.* for ordinary Morocco, and 10*s.* 3*d.* to 10*s.* 6*d.* for fair to good.

CUMIN-SEED is in slow demand, but quotations are unchanged at 35*s.* per cwt. for Morocco, and 37*s.* 6*d.* for Malta.

ERGOT is steady at 1*s.* 5*d.* for Russian and 1*s.* 7*d.* for Spanish on the spot, sales being reported of the latter at this price.

FENNEL-SEED is scarce, and 27*s.* 6*d.* per cwt. is the price on the spot.

FENUGREEK-SEED, owing to small stock on the spot, is dearer; 9*s.* to 9*s.* 3*d.* per cwt. is now required for fair Morocco.

GALLS are slightly easier, sellers being anxious to make progress. Blue Persian on the spot are quoted 62*s.* 6*d.* to 65*s.*, green 52*s.* 6*d.* to 55*s.*, and white 43*s.* to 45*s.* per cwt.

GINGER.—At auction 374 bags Japan sold without reserve at from 32*s.* 6*d.* to 33*s.* for mostly wormy limed; 30 cases good brown Calicut rough sold privately, and 235 bags washed rough Cochin were bought in at 42*s.* 6*d.*

GLYCERIN.—On Monday it was announced that one of the refiners had advanced his price for double distilled by 3*l.* per ton, and there were indications that at any moment the other refiners would fall into line. This took place to-day, after 'Change hour, when it transpired that all the refiners had officially decided to raise their prices by 5*l.* per ton. The quotation for double-distilled, s.g. 1.260 is now 95*l.* per ton, in 10-cwt. drums in 5-ton lots on contract, and 99*l.* for the same quantity in 56-lb. tins and cases.

GUM ARABIC.—Soudan is steady, with sellers of fair half-hard sorts at 31*s.* 6*d.* per cwt. spot. As already reported the Bordeaux market has been cleared of Senegal gum. For Bushire so-called insoluble sorts sales have been made up to 17*s.*, and common sorts up to 15*s.* Fine-picked amber and Mohamorah are scarce and wanted.

IPECACUANHA.—Retail sales of good Matto Grosso have been made at 5*s.* 9*d.* for fair bright natural. The 41 bales East Indian have now arrived; the last price paid in auction was 6*s.* 5*d.* to 6*s.* 8*d.*, but the holder is said to want 7*s.*

LIME-JUICE.—Concentrated West Indian is firm, with buyers at 17*l.*

LINSEED is again dearer. For good clean seed 65*s.* to 67*s.* 6*d.* per quarter would have to be paid.

MENTHOL is firm, with sales of Kobayashi for January-March shipment at 8*s.* 2*d.* to 8*s.* 3*d.* c.i.f., and Suzuki at

8s. 1½d. c.i.f. from second-hands. The spot sales include Suzuki at 8s. 3d. and Kobayashi at 8s. 5d. There has been more inquiry this week from the Continent and the United States, this pointing to the fact that consumers' stocks are low. The statistical position is regarded as favourable for higher prices.

Milk Sugar.—Prices vary, according to make and quantity, at from 39s. to 41s., the latter being for single cases.

Musk.—Tonquin is unaltered, fine blue skin, Pile I., being held at 65s. per oz., and old style at 52s. 6d. to 55s., according to quality. Pile III. is worth 35s. Cabardine is also unaltered at 18s. 6d. for Russian and 25s. for Chinese.

Oil, Cassia.—To arrive, sales of 80 to 85 per cent. c.a. have been made at 3s. 6d., and 70 to 75 per cent. at 3s. 3d. per lb. c.i.f., being steady. Spot values are: 80 to 85 per cent., 3s. 11d.; 75 to 80 per cent., 3s. 9d.; and 70 to 75 per cent., 3s. 7d.

Oil, Cod-liver.—Our Bergen correspondent writes on December 6 that the quotation for finest non-congealing Lofoten oil is unaltered—69s. per barrel c.i.f. terms—but holders appear to be less disposed to sell at this figure than they were a fortnight ago. The exports from Bergen up to date amount to 15,259 barrels, against 21,424 barrels at the same date of last year. In London prices are unaltered, with little business doing; spot is obtainable at 68s. 6d.

Oil, Lemon.—There is a fair amount of inquiry for delivery over next year, most agents quoting about 3s. per lb. c.i.f.

Oil, Lime.—Quiet, with fair West Indian distilled offering at 1s. 6d. to 1s. 7d. per lb. Hand-pressed is scarce at from 5s. 9d. to 6s.

Oil, Olive.—With reference to the paragraph on p. 761 of our issue of November 13, relative to olive oil production in Southern Italy H.M. Consul at Naples now states that in the province of Bari a medium crop was expected about a month ago, but the outlook has since become less favourable; the fruit has suffered in some districts owing to heavy rains, and part of it has been thrown down by the wind. The present estimate of the new crop is about one-third of a normal one. In the Castellamare district this season's crop is estimated at from 7,000 to 8,000 quintals. The price will probably be from 65 to 66 lire (2l. 12s. 3d. to 2l. 13s.) per quintal free on rail or quay, Castellamare di Stabia. A special quality of oil for burning purposes which is "inodore," *i.e.* free from all smell of sulphur, will be manufactured to the extent of about 2,000 quintals, and may be expected to vary in price from about 83 to 95 lire (3l. 6s. to 3l. 16s.) per quintal.

Oil, Peppermint.—American remains firm, but the tone here is very quiet, good brands offering for shipment at 8s. 6d., and on the spot retail sales are reported at 8s. 9d. Spot stocks, however, are small, and some look for an improvement after the turn of the year. H.G.H. is offered at 11s. Japanese oil is also quiet, Kobayashi offering at 5s. 8d. to 5s. 9d. spot, as to brand; and for shipment Kobayashi oil, in combination with menthol, is quoted at 6s. 5d. per lb. c.i.f., and 8s. 8½d. c.i.f. from first hands.

Oil, Turpentine.—American has advanced about 1s. 3d. per cwt. on the week; American closing at 40s. to 40s. 3d. per cwt. spot.

Opium.—The London market remains unaltered and quiet, and no revival of interest is looked for until the New Year. The price of Turkey druggists' on the spot is nominally 18s., Malatia 16s. 6d. to 18s., and Tokat up to 19s. per lb. Persian is also unaltered and without business, with sellers for shipment at 17s. 6d. The *Afghanistan* has brought practically 100 cases Persian, of which 45 cases will be offered on the spot, after analysis, the remainder being sold for arrival.

Messrs. C. H. Boehringer & Sohn in their monthly report write as follows:—Towards the middle of November a quieter tone superseded the impetuous, excited attitude of manufacturers, amongst whom the Americans were the chief actors, as well as of speculators, all of whom had been anxious to secure supplies, and who consequently had met readily the ever-increasing demands of owners. The most urgent needs appear now to have been covered; everybody assumed all at once an expectant attitude. Consequently owners became somewhat more tractable, and in order to create a weaker feeling attention was drawn to the autumn sowings, the condition of which up to the present is described as very favourable. However, although it is reported that the sowings have up to now progressed most auspiciously, the plants have only just begun to come up, and it would be too early to speak of crop prospects. On the other hand, the momentary lull cannot be considered as a sign of weakness, but solely as a consequence of the absence of demand, and it might rather prove to be only the forerunner of further price advances. The fact is that manufacturers are not overloaded with opium, and if it is considered that stocks in London have become very much reduced, and that supplies in the whole of Asiatic and European Turkey amounted in the middle of this month to about 1,400 cases only, the deduction must again and again be drawn that there is not sufficient opium available to cover the consumption of the next eight to nine months. Prices for morphia and codeia remained unchanged since the beginning of the month. The disproportion to the value of the crude material has, therefore, become still more pronounced.

A Smyrna correspondent, writing on November 27, states the market has been very quiet, only one case new extra Karahissar t.q. selling at 181 pts. or 19s. 5d. c.i.f. Despite this dull feeling, holders do not seem to be in the least discouraged, as they are convinced that the demand will not be long in making itself felt, as the stocks in consuming markets are extremely small. Should the dulness continue, it would not be astonishing if holders, with the object of bringing in orders, were to pretend to lower their demands; but should this policy succeed, and if we see the slightest increase in demand, prices are certain to rise to a higher level than has been the case during the current season. The arrivals are 1,748 cases, against 1,929 cases last year at the same date. Another correspondent, writing on November 27, states that the absence of buyers has not influenced the situation, as holders have been able to sell all they wished to during the course of the month. The majority of the arrivals this week are of Constantinople origin. Another correspondent, writing on November 26, states holders maintain a firm attitude, and we believe that no concessions will be made for a long time if even there is a total absence of demand. We have experienced very mild weather this autumn, with copious rains off and on throughout the country, which is a feature conducive to very good results as regards the fall sowings. The seed sown has already germinated, and the plants in many places are several inches above the ground, but cold weather is required to check this abnormal growth.

Sales during the week ending December 4 were two cases extra Karahissar at 177 piastres, or 19s. 3d., c.i.f. for speculation, whereas in Constantinople some 60 cases have been sold for export at former rates. This lull will facilitate transactions, and the sales which it is likely to induce will make the situation still firmer.

[Further information relative to the position of opium will be found in our correspondence columns.—Ed.]

Pepper (Black).—At auction 321 bags Ceylon offered, and 38 sold without reserve at 3⅝d. for barely fair, and 2d. for siftings; good to fine was bought in at from 4d. to 4¾d.; 391 bags Alleppy were also bought in at 4⅛d. for fair. Privately fair Singapore is offered at 4d. on the spot, and for arrival January-March shipment has been sold at 4 1/32d. c.i.f. d/w, and sellers.

Pepper (White).—At auction 85 bags Muntok offered, and 22 sold at 7¼d. per lb. for good, being cheaper. Privately, fair Singapore is quoted at 7 1/16d. spot, and for arrival sales of January-March shipment have been made at 6 15/16d. c.i.f. d/w, closing sellers at 7d.

Petroleum is quiet at 6d. to 6¼d. for American, 7d. to 7¼d. for water-white, and 5¾d. for Russian.

Pimento.—At auction 51 bags were offered, and a few sold at 2½d. per lb. for fair. Privately sellers of January-March quote 21s. c.i.f.

Quicksilver.—The importers' price is 9l. 15s. per bottle nominal (not 8l. 15s. as quoted last week), and so far as the drug and chemical trades are concerned, there appears to be no second-hand offers.

Quinine.—Demand is of quite a jobbing character, with second-hand sellers of the usual brands of German sulphate at 6¾d., and Amsterdam and Java at 6½d. per oz. The landings in London during November amounted to 75,200 oz., and the deliveries to 20,704 oz., leaving a stock on November 30 of 3,292,736 oz., against 3,324,496 oz. in 1908.

SANTONIN.—It is stated that the monopoly do not appear to be manufacturing at present, and that they are not likely to be in a position to deliver santonin "for some months." Spot price for retail lots is from 33*s.* 6*d.* upwards. In Hamburg second-hand sellers are obtaining from 78m. to 80m. per kilo.

SARSAPARILLA.—Thirteen bales of grey Jamaica have arrived.

SENEGA remains firm at from 2*s.* 4½*d.* to 2*s.* 5*d.* spot, and at 2*s.* 6*d.* to 2*s.* 6½*d.* c.i.f.

SENNA.—Subsequent to the auctions about 20 bales middling broken Alexandrian leaf changed hands at 2½*d.* per lb. There is also a fair jobbing demand for Tinnevelly, holders obtaining about ¼*d.* per lb. advance on sales rates. It is unlikely that any public auction of senna will be held previous to the drug sale on January 13.

SHELLAC is quiet, with small sales on the basis of 68*s.* for fair free TN orange, and for January-February shipment 68*s.* 6*d.* c.i.f. is quoted. Futures have also been quiet, the sales comprising December at 69*s.* to 68*s.* and May 72*s.* to 73*s.*

WAX, CARNAUBA.—The sales include good yellow at 126*s.*, but flor, which is scarce, is held for 148*s.* spot.

WAX, JAPAN.—Demand on the spot is quiet at from 44*s.* 6*d.* to 45*s.*, but to arrive December-February shipment has been sold at 40*s.* 6*d.* c.i.f., being firmer.

Heavy Chemicals.

A quietly steady business for prompt and early delivery is being transacted at the various centres of the heavy-chemical industry for both main and miscellaneous products. The tone of the market is steady and hopeful, and values all round are well maintained. A very satisfactory volume of export business continues.

SULPHATE OF AMMONIA.—This market is firm, and during the week there has been a very steady demand, though same has not been in excess of available supply. Prices have improved slightly for prompt, and this fact has had its effect on forward figures, makers holding out firmly for advance. Present nearest figures are: Beckton, 11*l.* 6*s.* 3*d.*; January-June, 11*l.* 10*s.*; Beckton terms, 11*l.* to 11*l.* 1*s.* 3*d.*: London, 11*l.*; Leith, 11*l.* 6*s.* 3*d.*; January-June, 11*l.* 10*s.*; Liverpool, 11*l.* 1*s.* 3*d.* to 11*l.* 2*s.* 6*d.*; and Hull, 11*l.* to 11*l.* 1*s.* 3*d.*

BICHROMATE OF POTASH AND SODA moved steadily at unchanged rates. Bichromate of potash, English and Scotch deliveries, 3½*d.* per lb., less 5 per cent., and export, 3¼*d.* per lb. net f.o.b Glasgow. Bichromate of soda, English and Scotch deliveries, 3*d.* per lb., less 5 per cent., and export, 2¾*d.* per lb. net f.o.b. Glasgow.

BARIUM PRODUCTS continue to maintain a steady tone, while the all-round demand is a good average. Mineral carbonate of barytes or witherite on the very scarce side, and practically nothing available for prompt. Blanc fixe pure precipitated sulphate of barium in paste form, 6*l.* 10*s.* to 7*l.* 5*s.* per ton in usual casks. Chloride of barium ordinary refined crystals in casks, 7*l.* to 7*l.* 10*s.* per ton. Hydrate of barium purest crystals is moving better at 13*l.* to 14*l.* per ton in 6 to 7 cwt. casks. Fused concentrated barium hydrate solid, 56 to 60 per cent. BaO, in 5 to 6 cwt. drums, 13*l.* 15*s.* to 15*l.* per ton. Crushed concentrated quality in special drums about 3 cwt. each, 30*s.* per ton extra. Mineral sulphate of barytes varies from 37*s.* 6*d.* to 95*s.* per ton, according to quality, quantity, and package. Crude calcined sulphate of barium, 70 to 75 per cent., 5*l.* 2*s.* 6*d.* to 5*l.* 15*s.* per ton.

American Drug-market.

New York, November 30.

Trading is fairly active in all departments of the New York drug-market. Prices throughout are well maintained, and advances have been scored in a few instances.

ALOES.—Case Curaçao continues in active demand, with prices firm at 6¾c. to 7c. Gourds and Capo are quiet at 9c. and 8c. respectively. A small supply of true Barbados in the hands of one dealer is held for 75c.

ASAFETIDA is scarce meantime, and the limited supply of U.S.P. grade is quoted at 60c. For arrival, subject to admission, 50c. is asked.

CANADA BALSAM is quiet, but steady, at $5.50 in barrel lots. Oregon is worth $1.

CASCARA SAGRADA is attracting little attention, transactions as a rule being on a jobbing scale at 7c. to 8c. according to age and dealer. The coast position has not altered, being characterised by absence of selling pressure and fair supplies.

COPAIBA.—Shipments of C. and S. American to this port have been backward of late, but supplies on hand have evidently been stretched out to meet the current demand, and prices are unaltered at 40c. to 45c. Para is in quiet demand at 50c. to 55c.

DAMIANA-LEAVES are again higher, a recent sale having been effected at 35c., representing an advance of 12c. during the fortnight. Spot supplies are low and under firm control. There seems little chance of the scarcity being relieved in the near future, since the usual primary sources are reported bare.

HYDRASTIS is in quiet demand on spot, with prices rather nominal at $1.90 to $2 according to grade. Primary markets are firm in tone and not too well supplied. Higher prices may therefore be expected to follow any increased inquiry in the local market.

IPECACUANHA.—Cartagena is firm at $1 with some upward tendency owing to shortage. Rio is generally quoted at $1.50, but easier terms can be obtained in some quarters.

OPIUM continues to advance in sympathy with primary conditions, and nothing is available under $6. Demand is fair, principally for jobbing lots.

PEPPERMINT OIL.—The situation has altered little during the interval, both sides continuing to mark time in anticipation of favourable events. Local dealers offer sparingly at prices on a parity with those ruling in country markets—viz., $1.90 to $2. (See cable.)

SENEGA is reported very scarce in both primary and spot markets, and an advance in the present quotation of 55c. is expected.

SPEARMINT OIL is dearer at $1.75 to $1.80. This year's crop is said to be sufficient to meet all likely demands, but the peppermint situationh as evidently been repeated, local dealers being caught short, with the primary speculators controlling the main supplies.

WORMWOOD OIL is in much the same position. The spot supply has been depleted by heavy exports to the Continent, and country stocks are firmly controlled. Quotations meantime range from $6 to $6.50, but higher values are expected to rule.

Manchester Chemical-market.

December 7.

There seems to be a quietening down in the demand for all classes of chemicals, in view of the near approach of Christmas. Caustic soda, 70-72 per cent., white, for 1910 delivery is offering on the basis of 9*l.* 10*s.* per ton rails. Inquiries are invited for caustic potash for material in solid. Business in carbonate of potash is well maintained, and a brisk business is reported for 1910 delivery, and several German makers are sold out for the year. Glycerin shows little change, but crude English 80 per cent. is worth 54*l.* to 55*l.* per ton. There is no prospect of lower prices. Chlorate of potash is steady. Sulphate of copper is dearer at 20*l.* to 20*l.* 10*s.* per ton, best brands, delivered Manchester. White powdered arsenic is a shade steadier. Lead salts are in fair request. Brown acetate of lime is firm at full rates. Acids and cream of tartar are slow. Coal-tar products are variable. Sulphate of ammonia higher for prompt delivery at 10*l.* 18*s.* 9*d.* to 11*l.* per ton on rails Manchester. Benzols and carbolic acid show little change.

Continental Drug and Chemical Markets.

ACACIA-GUM.—Recent reports concerning this year's yield of Kordofan gum are very favourable. Even should this year's total yield not come up to last year's, we may still expect satisfactory and sufficient crops, owing to the heavy rain, which set in earlier than usual. The first arrivals are expected from the interior of the Sudan in the course of the next month.

BALSAM PERU.—A steadier tendency is noticeable; higher prices cannot, however, yet be introduced, as there is a disposition to clear off stocks on hand under to-day's quotation. The demand varies between 13½m. and 14½m. for best qualities.

CARNAUBA WAX.—Owing to the absence of demand, the market is dull for current grey, while fatty grey is steady. Second-hands continue to flood the inland market with offers under cost, in the hope that the price will fall still further. These offers, however, in the majority of cases have an opposite effect, as buyers only become more shy, and are disinclined at the end of the year to accept cheap offers. Brazil continues to hold back, and would seem to have the intention of exercising a depressing influence on producers in order to buy new crops at lower rates; 225m. is quoted for first and second yellow, fatty grey is quoted at 171m., current grey at 166m. per 100 kilos. ex Hamburg warehouse.

SALTPETRE has been roduced by 2m. per 100 kilos., the cause being a duller tendency in Chilian nitrate. The real cause would, however, seem to be the opening of a new factory, whose competition it is intended to meet by the step proposed.

SODA CARBONATE.—The syndicate of German soda-makers have decided to sell at existing quotations for 1910.

SODA CAUSTIC.—German makers have agreed to a general reduction of 1m. per 100 kilos. on existing quotations. This step is probably attributable to the undercutting of new makers.

The Bandœng Quinine Factory.

According to a recent issue of the "Nederlandsche-Indische Effectenblad," the above factory is issuing the eighth series of shares, being 1,200 shares of 250 florins each. The present shareholders will receive a preference in the allotment of the new shares, and may take up three new shares for every four held already. Any not taken by the present shareholders will be allotted to outsiders in order of application. Present shareholders must send in coupon No. 13, signed, as a guarantee of their holding. The shares will be issued at a premium of 35 per cent., and holders will participate in the 1910 dividend Complete payment must be made on or before March 1 next. The lists will remain open until December 31 next, and applications will be received by the Nederlandsch Indische Escompto Maatschappij in Batavia and Amsterdam, or by Messrs. Monod & Co. at Semerang, or Heer Pino, Batavia.

St. Vincent Arrowroot.

During 1908 the exports were valued at 27,713*l.* Formerly the exports were calculated from April 1 of one year to March 31 of the following year, but the calendar year has now been adopted for trade statistics, so that this year it is not possible to give a true comparison with 1907. These figures are published in the annual report of the Colonial Office, which states that the product still heads the list in regard to area under cultivation. Although occasional individual attempts have at various times been made to advertise arrowroot, no combined efforts of exporters have been directed to this end. Later information on this point was given in our issue of November 13 (p. 762).

Pepper from Indo-China.

A Bill has been deposited in the French Chamber of Deputies by M. François Deloncle, proposing that the quantities of pepper from Indo-China to be admitted at reduced duty shall be fixed triennially. The object is to check overproduction in Indo-China, and to regulate prices on the French market.

Russian Platinum.

The agitation for the nationalisation of the platinum-industry is being renewed in the columns of the St. Petersburg Press, accompanied by the perennial complaint that the industry which has so largely come under the control of foreign syndicates will in a short time be wholly in their possession. In support of this contention a report was presented to a Congress of platinum-producers recently showing that last year, of the platinum produced, the foreign syndicates controlled 82 per cent., Russians only controlling 18 per cent. The proposition is renewed that the Imperial Bank should receive the platinum and lend practically its whole value to the depositor, and, if necessary, undertake the sale of the pure metal. The agitation is obviously being engineered, says the "Financial Times," in anticipation of the opening of the new Session of the Duma, when it is known the platinum question will be submitted.

Cablegrams.

SMYRNA, December 6.—Purchases of opium amounting to seventy cases have been made on United States account at the equivalent of 19*s.* 3*d.* per lb. for 11 per cent. [It is possible to buy 11 per cent. below this figure in London. —ED.]

SMYRNA, December 9:—The total sales of opium on United States and speculative account now amounts to 130 cases. Holders now ask, it is said, the equivalent of 19*s.* 6*d.* per lb. for 11 per cent. quality.

NEW YORK, December 9:—Business in drugs is fair. Opium is strong at $6 per lb. for druggist's, by single cases. Cascara sagrada is quiet at 6c. Copaiba is easy at 40c. for Central and South American. Balsam Peru is higher at $1.60. Peppermint oil is steadier at $2 per lb. for "tin" oil. Damiana-leaves have advanced to 45c., and senega is higher at 60c. per lb.

FRENCH CHALK.—The decline in the export from Malaga has been considerable, the figures showing a decrease from 570 tons in 1907 to 101 tons in 1908. The principal mines, which are owned by a British company, continue to be worked, but the production is used chiefly in Spain.

THE IMPORTS of chemicals, drugs, dyes, and medicines into the Philippine Islands showed a considerable falling-off last year, being only 82,676*l.* in value, as compared with 171,587*l.* in 1907. Practically the whole of the decrease is accounted for by the prohibition of opium imports, which in 1907 amounted in value to 89,210*l.* and *nil* in 1908. Included in the above figures is 11,438*l.* for proprietary medicines, nearly half of which were procured from the United States and over a quarter from France; roots, herbs, and barks are represented by 6,460*l.*, and "all other" drugs and chemicals by 54,044*l.*, the source of supply not being named.

Coming Events.

This Section of the "C. & D." is reserved for advance notices of meetings or other events which are sent to the Editor not later than Wednesday of the week before the meetings, etc., occur.

Tuesday, December 14.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C., at 8 P.M. Mr. C. E. Sage, F.I.C., lantern-lecture on "The Fixed Vegetable Oils of the British Pharmacopœia, particularly with regard to the Methods of Production."

Oldham Pharmaceutical Association, Café Monico, Union Street, at 7.30 P.M. Mr. F. Davies, on "History of Local Pharmacy."

Wednesday, December 15.

Pharmaceutical Society of Great Britain, North British Branch, 36 York Place, Edinburgh, at 8.30 P.M. "Syrup of Virginian Prune, B.P.," by Mr. Robert R. Hallaway, B.Sc., Ph.D., Ph.C.; "The Physiological Standardisation of Digitalis from the Point of View of the Pharmacist," by Mr. Robert R. Hallaway, B.Sc., Ph.D., Ph.C.; "The Valuation of Scammony Resins: A Comparison," by Mr. W. B. Cowie, Ph.C., F.C.S.; "Coloration in a Phenazone Mixture," by Mr. Thomas Wilson, Ph.C.

Western Pharmacists' Association, Frascati's Restaurant, Oxford Street, London, W., at 9 P.M. Mr. Edmund White, on "The Future Development of Pharmaceutical Education."

Birkenhead and Wirral Association of Pharmacists, Avondale Café, Church Street, Liverpool, at 7.30 P.M. Whist-drive. Tickets (2*s.* 6*d.* each) from Mr. F. Stephen Jones, Hon. Secretary, 439 New Chester Road, Rock Ferry.

National Union of Assistant Pharmacists, Liverpool Branch, Shaftesbury Hotel, Mount Pleasant, at 8.45 P.M. Open discussion on the future policy of the Union.

Thursday, December 16.

Chemical Society, Burlington House, London, W., at 8.30 P.M. The following papers will be communicated: "The Production of Para-diazoimides from Alkyl- and Aryl-sulphonyl-para-diamines: A General Reaction," by Dr. G. T. Morgan and Mr. J. A. Pickard; "Organic Derivatives of Antimony. Part I.—Tricamphoryl-antimonic Chloride and Triphenylantimonic Hydroxy-nitrate, and -sulphate," by Dr. G. T. Morgan, Miss F. M. G. Micklethwait, and Mr. G. S. Whitby; "The Constituents of *Rumex Ecklonianus*," by Messrs. F. Tutin and H. W. B. Clewer; "The Influence of Non-electrolytes on the Solubility of Carbon Dioxide in Water," by Mr. F. L. Usher; "Ethyl Hydroxyiso-butyrate," by Mr. W. Parry.

Leeds Chemists' Association, Grand Restaurant, Boar Lane, at 8.45 P.M. Mr. J. H. Beacock and Mr. F. Pilkington Sargeant, on "The Apothecary and his Wares in Shakespeare's Day."

Chemists' Assistants' Association, 73 Newman Street, Oxford Street, London, W., at 9 P.M. Musical and social evening.

North Staffordshire Chemists' Association, Roebuck Hotel, Stoke, at 7 P.M. Mr Ernest Mellor (Uttoxeter), on "The Organisation of the Forces of Pharmacy."

College Notes.

LONDON COLLEGE OF PHARMACY.—The prospectus of this college for the coming session is modelled on the same lines as that of last year. The illustrated account of the premises occupies several pages. Details concerning the various courses follow, with lists of suitable apparatus and text-books. The pass lists from 1902 to 1908 inclusive occupy three pages, the last page being occupied by the prizemen of the college and awards gained in open competition by students of the London College. Intending examinees should apply to the Secretary, 323 Clapham Road, London, S.W., and study the advantages offered at this successful college.

GLASGOW SCHOOL OF PHARMACY.—The students of the above school paid their annual visit to the laboratories of the Glasgow Apothecaries' Company, St. Rollox, on December 3, when Mr. Bowie, the manager, conducted the party over the premises. The various pharmaceutical processes in operation were lucidly explained. The materia medica room, which is well stocked with excellent specimens, was the last place visited, and here Mr. Bowie held an impromptu examination, to ascertain the students' knowledge of the subject. The outing was voted a most profitable one, and also thoroughly enjoyable.

Correspondence

TO CORRESPONDENTS.—A letter for publication should always be a distinct communication; nothing else should be mixed up with it. Each query—no matter whether legal, dispensing, or general—should stand by itself, and the paper upon which it is written should always be backed with the shop stamp. We do not undertake to reply to queries by post. Write clearly and concisely on one side of the paper only. All communications should be accompanied by the names and addresses of the writers. Publication of letters does not imply our agreement with them. Letters received after Wednesday morning cannot as a rule be dealt with in the current week's issue.

The Word "Pharmacy."

SIR,—Your leader in this week's issue respecting the word "pharmacy" is somewhat surprising, as in it you are pleased to describe as a *lapsus linguæ* a definite statement made by Mr. Herbert Samuel. If you will refer to the "Pharmaceutical Journal," January 16, 1909, p. 53, you will find the following:

"Mr. Samuel, before replying, turned to Mr. FitzRoy, Clerk to the Privy Council, and then spoke as follows:

We are quite clear on this point; a person who is not to use the title 'pharmacist' will not be able to put 'pharmacy' over his place of business, any more than a non-qualified surgeon can put 'surgery' over his place of business. That is an essential feature of the compromise.

[About the longest *lapsus linguæ* I ever heard of.—G. S. W.] Among those who were present and heard this statement were the Vice-President, Treasurer, Secretary, and Parliamentary Secretary of the Pharmaceutical Society, in addition to other officers of the Society, including the Editor, who was personally responsible for the 'Journal' report of the proceedings on the occasion in question."

Now do you not think it would be more beneficial to the interests of pharmacists, if you, instead of taking up the line of argument you do in your leader, were to use your influence and point out to Mr. Herbert Samuel that it is his duty to make good, by further legislation if necessary, his statement of January last?

Yours faithfully,

Manchester, December 4. GEO. S. WOOLLEY.

[Facts, which are not as well known as they should be, do not lay the path of duty in that direction. The passage which Mr. Woolley quotes was reprinted in our issue of January 23, p. 120, when we said of it:

We fancy our contemporary is mistaken about Mr. Samuel turning round to Mr. FitzRoy before replying to Mr. Snowden, and if the inquiries are continued it will be found that there was no consultation between these Government representatives in regard to the word "pharmacy." But this is immaterial to the main point. Mr. Samuel's use of the word could only have been a slip of the tongue. He was not engaged in the compromise, and, far from the reservation of the word to pharmacists being an essential feature of that compact, it was not even discussed: "pharmacist" was the essential feature. . . .

Mr. Woolley has overlooked this, the last word on the subject at that time. We believe we are serving the best interests of pharmacy by endeavouring to remove an erroneous impression that the Minister who had charge of the Poisons and Pharmacy Bill has been false to a promise which he is alleged to have made while the Bill was in the Commons Committee stage. The Pharmaceutical Council did not move in the matter, and Mr. J. Rymer Young, then President of the Pharmaceutical Society, at Stoke, on January 14, gave the following explanation:

"It seemed to him quite reasonable and logical that the term 'pharmacy' should be restricted to a person who was a pharmacist. The matter was not overlooked by the Pharmaceutical Council, but they were told that if they loaded the Bill with one single feather more it could have no chance of getting through. . . . The Pharmaceutical Council, however, would do its utmost to take care that the use of the word 'pharmacy' was restricted to the individual who happened to be a pharmacist."—*Phar. Journ.*, January 23, p. 99.

This shows that the President did not imagine that Mr. Samuel had given any promise. We understand that certain members of the Council, including Mr. Lord Gifford, were dissatisfied with the Council's decision, and personally moved in the matter by interviewing members of Parliament; but nothing was done publicly except during the Committee stage, when Mr. Snowden put a series of questions in regard to the titles which corporate bodies might use. The interrogation was thus reported in the *C. & D.*:

Mr. Snowden asked whether the title pharmacist, pharmaceutical chemist, and pharmaceutist could be used by any save qualified chemists.

Mr. Samuel said the only prohibitive title under the Bill were the three which had been mentioned. A company might use any title it chose except those three.

Mr. Snowden asked if a co-operative body could not use the word pharmacist.

Mr. Samuel said "No," not even if they had a qualified man in charge could a company use that title.

Mr. Vivian asked whether a co-operative society could use the description drug-stores, chemist stores, or pharmaceutical department, though they had not a qualified man on the board.

Mr. Samuel said that a co-operative society which had not a qualified person on its board, but had a qualified man in charge, could call itself a drug-stores or chemist stores. A long list of names had been provided by the Pharmaceutical Society which could be used by a co-operative stores.

It is clear, therefore, and is not denied, that the Pharmaceutical Council put forward no specific amendment to the Bill covering the word "pharmacy," and the proposal never got the length of being submitted to Mr. Samuel or anyone else representing the Government. Had that been done and the reply given that the Bill covered the point, we would have been among the first to urge that Mr. Samuel was in duty bound to promote further legislation, as Mr. Woolley suggests.—EDITOR *C. & D.*]

SIR,—The protection of the word "pharmacy" was no doubt suggested by various persons when the discussions on the great Bill were proceeding. It was spoken of at the Aberdeen Conference. In conversation after the meeting I suggested that in the clause forbidding the use of the word "pharmacist" by unqualified persons there might be added some such expression as "or any word or words implying that the person is a pharmacist." In reply, we were, in effect, told that it would hardly do to propose too many alterations in the clauses, as it would seem too like saying to the officials in charge of the Bill "You don't know how to draft a Bill." Yours, etc.,

Edinburgh, December 7. D. B. DOTT.

Tests for Lemon Oil.

SIR,—I am somewhat surprised that Mr. Parry should comment [*C. & D.*, November 20, p. 786] in such a manner upon a controversy about which he has been obviously so poorly informed. The tests which we relied upon in condemning the lots of lemon oil held at the New York Custom-house in 1907 had solely to do with the presence of unusual amounts of pinene. This Bureau has now been constantly examining lemon oils for several years, and was well aware at the time of the trouble in 1907 that the distillation-test as given in the Pharmacopœia should not be relied upon. Considerable experience with oils had shown us that by ordinary means of distillation, as prescribed by Schimmel & Co. in their "Berichte," pinene could not be found in the distillate by formation of the nitroso-chloride crystals and their examination under the miscroscope. A fact not mentioned in the circular, tending also to prove that the oils in question had been manipulated, is that since the exclusion of those oils, with one exception, no lots have been submitted for importation in which pinene could be detected. The Bureau has been spending considerable time in perfecting methods for the detection of added lemon terpenes, and believes that it is now in a position to exclude importations adulterated in this manner. It is thoroughly prepared and intends to fully examine the oils from the coming crop. Yours respectfully,

H. W. WILEY,
Chief, Bureau of Chemistry,
U.S. Department of Agriculture.

Washington, November 27.

The Position of Turkish Opium.

SIR,—In my letters dated June 18 and July 31, I stated that this year's opium-crop would not exceed 4,500 cases, but I regret that you did not publish my letters in your journal. I now notice that in THE CHEMIST AND DRUGGIST of November 6, you agree as to the truthfulness of my information as to the crop being about 4,500 to 5,000 cases. My intelligence is based on reports received daily from all our Anatolian branches, and if it had been published at

the time, I believe your readers would have been enabled to buy their full quantity of opium at cheaper rates than they are now paying. I have compiled the following table, which shows the statistical position at the present time :

	Cases
Smyrna stock on hand June 1, 1909 ...	480
Constantinople stock on hand June 1, 1909	38
Arrivals in Smyrna to November 14 ...	1,748
Arrivals in Constantinople to November 14	2,310
Salonica crop, 1909	600
Total	5,176
Deduct sales made in Smyrna, Constantinople, and Salonica to U.S.A. and Continent from June 1 to November 14	4,138
	1,038

Of the above stock of 1,038 cases, 600 is in Smyrna and 438 in Constantinople, there being nothing in Salonica. Further, about 20 per cent. of this stock is of inferior quality, so that until the new crop is again available there is on hand a mere 800 to 900 cases of opium, which would only satisfy the world's consumption for two months. The autumn sowings took place under favourable conditions, but no one can say that there will be a full crop of opium on this statement alone.

Yours truly,

Smyrna, December 2. M. Shirinian.

Dentistry in South Africa.

Sir,—It is contended that the Transvaal Medical Dental and Pharmacy Act of 1904 deprives chemists of the privilege of extracting teeth, which they had previously enjoyed. The Natal Medical Dental and Pharmacy Law specially stipulates that extracting teeth is not a contravention of the Act. I am unaware how chemists are affected in this matter in the Cape Colony, Orange River Colony, and Rhodesia, and would much like to know. I think that chemists in South Africa should endeavour to safeguard their privilege of extracting teeth by legislation immediately the Unified Parliament is in existence. The dentists here have leagued together to safeguard their interests, and I think it high time that the chemists did likewise.

Yours faithfully,

Amersfoort, Transvaal. T. Hannah.

Dispensers in Institutions.

Sir,—I should think many dispensers would be surprised to read accounts of the suggestion made in the House of Commons that dispensing in public institutions be restricted to registered chemists and druggists. The Society of Apothecaries are a society of highly qualified medical and scientific men. The Assistants' certificate is generally signed by six or seven examiners bearing the degrees of M.D.Lond., D.Sc., and F.R.C.S. They have conducted the examination since 1815, and surely ought to know what qualification is requisite for dispensing and selling poisons. The certificate qualifies, by Act of Parliament, for dispensing in open shop, surgery, and institution, without supervision and without liability under the Pharmacy Act. Considering the number of pharmacists under the old Act who have passed no examinations and who do not know any elementary chemistry, who have open shops, the remarks of late concerning the Hall qualification are certainly uncalled for. The fact that some who pass the pharmaceutical and afterwards fail in the Hall shows that a candidate must know something before successfully negotiating it. To become an apothecary requires, after matriculation, at least five years' Collegiate study, and qualifies to practise medicine, midwifery, and surgery, and many of the assistants are highly educated, both medically and pharmaceutically. A qualification which has been granted for ninety-five years ought to be certainly treated with respect. The subjects cannot be taken singly, and never could. Failure in one necessitates re-examination in all.

Yours obediently,

Tetrachloride. (2/38.)

Selling a Business.

Sir,—Discussing this subject with a brother-chemist some years ago, he assured me, as I did not keep books properly, that I should have difficulty if I wished to dispose of my business. Acting upon his suggestion, I have since adopted a recognised system of bookkeeping. I find, however, that, while it is a great help in many ways, few pharmacists understand the subject, and therefore as a protection to prospective purchasers against inflated returns and exaggerated net profits it appears useless and waste of time. As a result of my advertisement in the *C. & D.* one gentleman came 100 miles to view, but after spending one whole afternoon (a quiet time with me) returned without calling upon me. Another came 200 miles, seemed pleased with everything, but, doubting (I have heard since) the exceptionally profitable nature of my business and without asking to inspect my books, returned home decidedly unfavourable. So much for keeping books. I suppose if I could loose my conscience, keep no books, and say my returns and profits were three times more than they are, I might anticipate some truth would be credited to such statements, and I could sell more quickly and at a fair price.

Yours faithfully,

December 7. X. (5/61.)

The Drug-stores and Poisons.

Sir,—I was greatly interested in the perusal of Mr. Raynor's letter in your last issue. Speaking of drug-stores, he states : "To imagine these concerns prosper and at the same time deal exclusively in non-poisonous preparations is absurd." Mr. Raynor's value of the poison trade is different from mine, with an experience of twenty-three years in London and the provinces. I have been assistant in shops that have not averaged 5*s.* a week in poisons. I well remember one week taking over 10*l.*, including the princely sum of 3*s.* 4½*d.* for poisons (drugs and patents). Can Mr. Raynor give reasons why the proprietors of Winslow's, Fenning's fever-curer, Atkinson & Barker's infants' preservative, and other patents have left the poison out of their preparations? Is it to benefit the chemist or the drug-store proprietor? The chemist of the future, if he intends making a living, will have to work his business on the drug-store principle, with a little less touch-me-not cuff-and-collar order. Whether we like it or not, the fact remains we must all bow to Sir Jesse, the pioneer of the drug-trade.

Yorkshire. (5/90.)

Subscribers' Symposium.

(Information Received or Solicited.)

Heroin Hydrochloride.

If heroin is dissolved in distilled water slightly acidified with hydrochloric acid and warmed it forms a clear solution, but when cold appears to be thrown out, as there is a precipitate. Is this salt not soluble in cold water if prepared from the alkaloid in this way? *Dispenser.* (7/12.)

Ourselves.

Your thoroughly up-to-date journal is much appreciated by brother pills on the Continent. It is just what is wanted to keep us in touch with home pharmacy. *J. P. T.* (Geneva, 5/61.)

I don't know what I should feel like if I did not get my *C. & D.* every week. Every Friday at noon I anxiously await the postman, and am quite disappointed if one of his parcels is not the *C. & D.* Wishing it every success.—*J. C.* (72/37.)

In sending you my annual subscription to the *C. & D.* for the forty-first time, may I congratulate you on the ever-increasing excellence of your production? I always look forward to receiving it with pleasure, and have derived much substantial advantage from its perusal.—W. W. (75/18.)

Cod-liver Oil for Animals.

Barbara, the Polar bear at the Zoo, in Regent's Park, has cubbed, and is to be given a quart of cod-liver oil every evening as a tonic. This is interesting, and emphasises the great utility of cod-liver oil when given to animals—a fact I am certain chemists as a rule do not take sufficient advantage of, though I think farmers and breeders are waking up to the value of cod-liver oil. I know one breeder of pigs who habitually buys from four to six barrels of cod-liver oil for the season, and it pays him well so to do.—*Wm. Bousfield.*

What's in a Pharmacy?

The well-known query is "What's in a name?" but greater interest attaches at present to the question, "What's in a pharmacy?" I leave that for others to answer, says (3/57), but—

A pharmacist sat in his pharmacy,
His face was glum as glum could be,
The thought of the "stores" it made him blue,
His trade was gone and his credit too.
To get a living he scarce knew how,
So he made up his mind to follow the plough.
His thoughts they wandered across the sea,
"Ah! yes," quoth he, "a farm I see."
He shut the door and fastened the lock,
The rats and mice devoured his stock.
He sailed away to a far countree,
With never a care for pharmacy.
To Canada's plains he went with his wife,
And boldly started the simple life,
All through the spring he toiled and toiled,
His lily-white hands were sadly soiled.
All through the summer he bravely worked,
And the meanest duty never shirked.
But when winter's cold came on at last,
With the land by snow and frost bound fast,
He gazed o'er the landscape wide and free,
And sighed "A country farm-i-cy."
Then he started off on the homeward track,
And when spring came round he was safely back,
At the self-same shop in the self-same town,
So he opened the door and the blinds took down.
The windows were cleaned and he bought new stock,
The local drug-store had quite a shock,
As he hung out the legend as bold as could be,
"Drugs pure and cheap, come Farmer See."

Dispensing Notes.

Salicylated-cocaine Solution.

Sir,—Will you kindly tell me what mistake I have made in preparing this cocaine solution, which I have made several times previously and no fault being found? The recipe is:

Acid. salicylic.	gr. j.
Aquæ dest.	ʒj.

Boil together in a flask for two or three minutes, then add after filtering and cooling:

Cocainæ hydrochlor.	gr. viij.

Again filter and bottle.

Would an excess of salicylic acid salt out the cocaine?

Yours truly,
P. H. G. (4/30.)

[The granular-looking precipitate in your solution is salicylic acid. You probably had not cooled it sufficiently or long enough before the final filtration. After receiving it we kept it, with the assistance of the weather, for two days where the temperature was below 38° F., and the precipitate was considerably increased. We separated some of the precipitate and redissolved it in water. It did not dissolve completely till boiled. We tried this solution in a comparative way for alkaloid with Thresh's reagent, and it indicated only a trace such as could not fail to be retained in the moisture adherent to the precipitate, which was not dried. The quantity of salicylic acid which you use is in excess of what can be retained dissolved in the preparation at ordinary temperatures, and it is not necessary for preservative purposes to have the solution saturated. If you substitute ½ grain for 1 grain in your recipe we believe you will find it sufficient for your purpose and cause no further trouble through falling out of solution.]

Ammoniated-quinine Mixture.

Could you kindly inform me how to dispense properly the following prescription?—

Ammon. brom.	ʒiij.
Tr. jaborandi	ʒij.
Tr. quin. am.	ʒvj.
Aq. chlorof. ad	℥vj.

When dispensed a resinous-looking substance appears which adheres to the sides of the bottle. Bunting. (4/90.)

[Dissolve the ammonium bromide in the chloroform-water, add the tincture of jaborandi, then pour in the ammoniated tincture of quinine gradually, stirring all the time. When the mixture is prepared in this way there is a slight precipitate of very small particles which diffuse perfectly on shaking; they do not adhere to the sides of the bottle. A precipitate such as you describe is probably hydrate of quinine. If you used hard tap-water in making the chloroform-water it might affect the result. If you do not get the mixture to work in the way we have described, add 9 grains of tragacanth before the ammoniated tincture of quinine is poured in, otherwise following the same procedure.]

Legal Queries.

Sesame (258/38).—(1) A private company composed of two shareholders only is a corporate body within the meaning of the Poisons and Pharmacy Act, 1908. (2) A company cannot use the title "Chemist" unless it has on its board of directors a registered chemist who is the superintendent of the company.

Druggist (254/28).—Considering the circumstances as a whole, we think if you cannot get the matter amicably adjusted on the spot you should submit the whole facts to the Local Government Board of Ireland. Do not overlook the fact that while you may think your presence unnecessary at the newly specified times, those who employ you do. Without their statement of the case it is impossible for us to answer specific questions as to which only your side is placed before us.

R. D. (254/40).—(1) The agreement is enforceable, but probably not for so long a period as stated in the contract. In any case, your safe course to pursue is to intimate to your employer that you propose to take advantage of the saving clause by which the condition is, we understand, waived on payment of a penalty. (2) Preparations introduced by assistants to retail chemists for sale by their employers in the ordinary way of business do not belong to the assistants unless there is some special agreement to that effect. An employer can require the assistant to give him the true recipe for the preparation, and may prevent the assistant afterwards selling the preparation as being the employer's.

Co. Director (47/15) writes: We are company chemists with qualified managers, and we also have branches which we run as drug-stores, no poisons sold. Can we sell at these drug-stores goods packed by us (the company) and bearing our name and the word "chemist"? Our contention is that our goods can be sold at the drug-stores just as the goods of any other "chemist." [Our querist is, we understand, the founder and registered superintendent of the company, so that the company is legally entitled to use the title "chemist" anywhere, provided the conditions of Section 3 (4 *a* and *b*) of the 1908 Act are complied with. The use of the title in association with the name of the company is legalised, and it would be difficult for our correspondent to prove that such use does not take place at the branches where articles labelled as stated are sold for and on behalf of the company. Consequently the requirements as to the carrying on of the business are not observed, and the company becomes liable to an irreducible penalty of 5*l.* each time an article labelled as described is sold. We do not consider that the exhibition by a company or person not authorised to use the title "chemist" of a speciality labelled with the name and title of the maker who is a registered chemist is exhibiting or using the title by the company or person in the sense of the Acts.]

Miscellaneous Inquiries.

We endeavour to reply promptly and practically to trade questions of general interest, but cannot guarantee insertion of replies on a particular date, nor can we repeat information given during the past twelve months. A preliminary condition for reporting on samples submitted is that all particulars as to source and uses are given to us.

Lux (241/4).—Yellow Colouring.—Quinoline yellow dissolved in boiling water in the proportion of 8 oz. to the gallon gives a bright yellow colour suitable for liquids. For powders the quinoline yellow is diluted with sugar in suitable proportions.

Snail (1/24).—Artificial Fertilisers.—The ingredients used in compounding these are nitrogenous matter, such as blood, albumen, hoof and horn waste, wool-waste, fæcal matter, litter, oil-cake. The nitrogen in these by the action of the soil produces ammonia or a nitrate. Other forms of nitrogen are ammonium sulphate, potassium nitrate, and sodium nitrate. Ammonium sulphate of commercial qualities contains the equivalent of 20 per cent. of nitrogen, sodium nitrate 14 to 15 per cent. Lime nitrate, containing from 75 to 77 per cent. of calcium nitrate, is equivalent to 13 per cent. of nitrogen and 20 to 25 per cent. of lime. Calcium cyanamide, or nitrolim, contains 20 per cent. of nitrogen and 18 per cent. of free lime. Potassium nitrate, with 12 to 13 per cent. of nitrogen, is expensive in comparison with other nitrogen-

containing chemicals, but is useful for crops requiring potash, such as tobacco. On the other hand, for crops, such as peas, beans and clover, requiring potash but no nitrogen, potassium chloride or sulphate is employed. Kainit, a natural product from the Stassfurth mines, contains potassium sulphate, magnesium sulphate, and sodium and magnesium chloride. From this potassium sulphate is prepared. Calcium phosphate in several forms supplies phosphoric acid to the soil. The common form is superphosphate (15 to 18 per cent. phosphoric acid), an acid form, while basic slag (a by-product in the manufacture of steel from pig-iron containing phosphorus) is an alkaline form. Basic superphosphate is a mixture of lime and superphosphate. The following recipes show how the ingredients are combined, and indicate a range of fertilisers suitable for packing and selling by agri-horticultural chemists:

—	Grass Pasture	Lawns	Apples and Pears	Stone-fruit	Fruit generally	Garden generally	Leguminous plants	Leguminous plants	Potatoes	Potatoes	Cabbage, etc.	Turnips	Onions	Tomatoes	Celery	Asparagus	Cucumbers	Strawberries	Rose-trees	Chrysanthemums
Superphosphate	50	112	30	62	47	45	60	—	40	50	2	66	15	72	30	34	41	57	57	44
Ammonium Sulphate	42	45	—	25	19	17	—	50	21	—	3	20	—	37	15	18	15	28	28	20
Potassium chloride	—	—	—	—	—	—	—	250	—	—	—	—	—	—	—	9	—	—	—	—
Potassium sulphate	20	23	30	25	17	15	40	—	10	22	1	13	27	45	—	—	15	45	38	14
Magnesium carbonate	—	—	—	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kainit ...	—	44	—	—	—	—	—	—	21	—	—	—	—	—	45	—	20	—	—	—
Dried blood ...	—	—	—	—	—	—	—	100	—	40	—	—	40	—	—	—	—	—	—	—
Ground bone ...	—	—	52	—	24	35	15	500	20	—	—	13	30	72	22	51	21	96	96	34
Ferric oxide ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	—
Quantity per acre	3 cwt.	6–7 cwt.	4 lb. per tree	4 lb. per tree	9–10 cwt.	7–8 cwt.	3 cwt.	8 cwt.	10–11 cwt.	6 cwt.	3 cwt.	8–9 cwt.	8 cwt.	8–10 cwt.	6–7 cwt.	9–10 cwt.	9–10 cwt.	5–6 cwt.	apply to roots	8–9 cwt.

R. A. Z. (254/6).—Essential-oil Solvent.—Strong solution of sodium salicylate has been used as a substitute for spirit in the manufacture of soluble essences, but is open to several objections, the chief being the introduction of this preservative in unknown quantities into beverages

B. B. (Mombasa) (253/72).—Sesame Oil or Teel Oil is prepared from the seeds of various species of the sesame-plant. In India and the Far East *Sesamum indicum* (yielding white or yellow seeds) and *S. Orientale* (dark seeds) are employed, while in Africa the variety is *S. radiatum*. The quality of the oil depends upon the process of extraction, native methods yielding inferior oils. In the modern process the seeds are first sifted to remove dirt and then ground to a meal beneath steel rollers or by means of edge-runners. The meal is then packed in bags and expressed in a hydraulic press in the cold at a pressure of about 2 tons to the square inch. This first expression in the cold is the best quality, and is used for edible purposes and in margarine and for perfume oils. Further quantities of oil are obtained at a higher temperature. The oil is used also for burning and in the manufacture of india-rubber substitutes. We can put you into communication with the manufacturers of oil-pressing machinery if you desire.

E. J. D. (253/23).—Diastasic Power of Malt Extract.—The Lintner method for malt is given in Briant's "Laboratory Text-book for Brewers" (Fell & Briant, Glasshouse Yard, London, E.C.), p. 129, but needs adapting for malt-extract. The best way is that given by Sykes and Mitchell ("Analyst," 1901, p. 227), where the extract is diluted to a specific gravity of 1.013. You should also refer to the *C. & D.*, July 28, 1906, p. 180, or "Year-book of Pharmacy," 1906, p. 280, for particulars of the Harrison method of ascertaining the diastasic activity of malt-extract.

Antipedlar (249/44).—Why should you regard the house-to-house calling as a means to compel chemists to stock an article?

D. F. (231/53).—Colic Fever in Canaries.—This is due to the food being either too hard or too soft. The food should be a mixture of both, and should include some rape-seed. A little glycerin given occasionally prevents the colic. It may be put in the bird's drinking-water. To relieve the colic give a minim each of chlorodyne, dill-water, and peppermint-water

W. (256/9).—To test for Salt in Honey dissolve a few grains of it in distilled water, and add a drop or two of silver-nitrate solution. If the precipitate redissolves on adding ammonia solution you may fairly conclude that common salt or another chloride is present.

E. P. S. (208/58).—We regret we cannot assist in such matters, they being outside our province.

L. P. B. (Trinidad) (281/19).—Whistling Rockets.—The chemical used in sky-rockets to give the whistling noise so much appreciated by a fireworks-crowd is potassium picrate. It is prepared by adding a solution of potassium nitrate to a hot solution of picric acid; the yellow precipitate is dried and powdered.

P. G. A. (259/43).—Reference Works on Chemistry.—The bibliography in the *C. & D. Diary* 1906 gives the title of many works suitable for your purpose. Thorpe's "Dictionary of Applied Chemistry" and Watts' "Dictionary of Chemistry" are standard reference-works of the type you indicate. For recent research work original papers must be consulted. There is no recent book on plant-analysis, the best-known is Dragendorff's "Plant Analysis" (7*s.* 6*d.*).

M. W. M. (257/1).—Colour-test for Gallic Acid.—Young's test, using potassium cyanide, is the one referred to, the addition of the cyanide to a solution containing gallic acid giving an intense red coloration, which fades on standing, but is reproduced on aëration by shaking energetically. Tannic acid does not give any coloration under these conditions. The test is given in the seventeenth edition of Squire's "Companion" under gallic acid, but is omitted from the new eighteenth edition.

Chemicus (Anglesey) (257/65).—Books for Minor Students.—See *C. & D.*, August 14, p. 314.

Veterinary Note.

By a M.R.C.V.S.

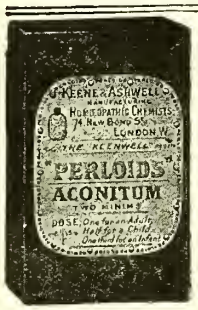
Poultry Medicine-chests.

In districts where poultry-raising is popular and poultry-fanciers numerous it might prove a financial success were chemists to arrange and stock a poultry medicine box or chest containing a few simple remedies for immediate use. A table giving dose, actions, and uses of the various drugs, and telling how and when to administer them, or a pamphlet briefly describing the symptoms and treatment of a few of the common ailments met with, with a few hints on breeding, feeding, management, etc., could be included. The following medicines are suitable for a poultry medicine-case: Ol. lini, ol. ricini, lin. camphoræ, paraffin, vaseline, tr. ferri perchlor., cretâ præp., flor. sulphur., camphor, magnes. sulphas., glycerin, tr. iodi, ung. zinci, potass. permang., acid. carbolic., and roup pills. Further hints may be gathered from "Veterinary Counter-Practice."

Mineral Salts for Chickens.—Common salt 30, sodium phosphate 9, calcium fluoride 1, green vitriol 1, bone-ash 30, chalk 30, Epsom salts 10, charcoal 2, flowers of sulphur 3. This has been well proved on Transvaal poultry-farms.

Homœopathic "PERLOIDS" TRADE MARK.

The word "Perloid" denotes a dose of any medicine in a portable and convenient form.



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PERLOIDS are superior to pilules.
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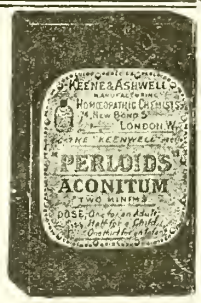

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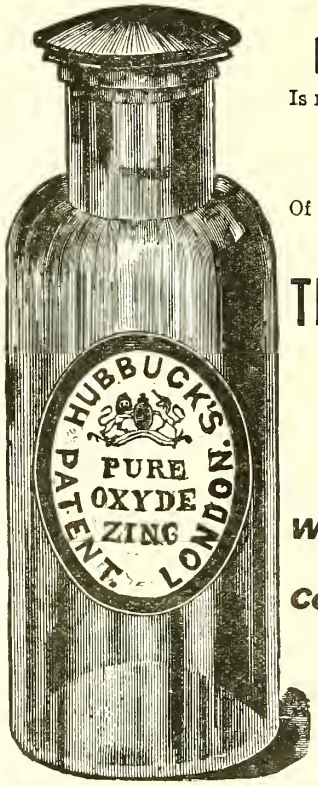

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*Acetone, 6 lbs. @ 1/2 lb.; 1 lb. @ 1/4 lb.
***Acid Acet. Glacial.**, 99%, Carboys 144 lbs. @ 4½d. lb.; 12 6-lb. bots. @ 6½d. lb.; 6 lbs. @ 8d.
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„ Benz. B.P., 7 lbs. @ 1/8 lb.; 1 lb. @ 2/- lb.
„ Boric Pulv., 3 cwt. @ 28/- cwt.; 1 cwt. @ 28/6 cwt.; levigd. 3/- cwt. extra.
Acid Carbol Xtls., 39/40; 56 lbs. @ 5d. lb.; 10-lb. Tins @ 5/- each; Detached Cryst. 8/- each; 36 1-lb. Bots. @ 8½d. lb., Single Bots. 11d. lb.; Detached Cryst. 1 lb. @ 1/1 lb.; Crude Black, 45 Gall. Casks @ 10*d.* gall.; 1 Gall. Tins @ 1/5 each.
„ **Citric Cryst.**, B.P. '85, 1 cwt. @ 1/3 lb.; 7 lb. in Bags @ 1/4 lb.; powder ½*d.* lb. extra.
„ Diethylbarbituric, 16 oz. @ 36/- lb.; 1 oz. @ 2/8 oz. [2/- lb.
„ Gallic pur. P.B., 7 lbs. @ 1/10 lb; 1 lb. @
* „ Hydrobrom., dil. B.P., 6 lbs. @ 7*d.* lb.
„ Hydrochlor. Coml., cases of 4 2-gal. jars, 17/- each; 20 case lots @ 16/- each.
* „ Hydrocyan. P.B., 6 lbs. @ 1/1 lb.; 1 lb. @ 1/4 lb.; 36 1 oz. Vials @ 3/6 doz.
„ **Oxalic Cryst.**, 5 cwt. @ 3⅜d. lb.; 1 cwt. @ 3⅝d. lb.; 14 lbs. @ 3¾*d.* lb.
* „ Phosph. Dil., B.P., 8 lbs. @ 4½d. lb.
„ Salicyl. pulv., 7 lbs. @ 1/1 lb.; phys. pure, 1 lb. @ 3/- lb.
„ Sulphur, Coml., cases, 4 2-gal. jars, 17/- each; 20 cases @ 16/- each.
* „ Sulph. Aromat., B.P., 5 lbs. @ 3/8 lb.
„ Tannic, B.P., 7 lbs. @ 2/2 lb.
„ Tart., cryst. or pulv., B.P. 1885, 1 cwt. @ 9¾d. lb.; 7 lbs. @ 10¾d. lb.; parv. ½d. lb. extra. [10½d.
Adeps Benz., B.P., 28 lbs. @ 9½d.; 7 lbs. @
Adeps Lanæ B.P., Anhydrous, 2 cwt. @ 52/6 cwt., Hydrous @ 49/- cwt.; 1 cwt. @ 2/- cwt., 28 lbs. @ 5/- cwt., 14 lbs. @ 8/- cwt., 7 lbs. @ 12/- owt. extra.
Aloes Barb., English ground, 28 lbs. @ 70/- cwt.; 7 lbs. @ 8d. lb.
Aloes. Socot., 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ 1/5 lb.
Ærugo Æris Pulv., 14 lbs. @ 11d. lb.
Aloin, B.P., 1 lb. @ 3/9 lb.
Ammon. Benz., 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
Ammon. Brom., P.B., 1 cwt. @ 1/1½ lb.; 7 lbs. @ 1/3 lb.
Ammon. Carb. lump, 3 cwt. @ 3⅜d. lb.; 28 lbs. @ 4½d. lb.; 7 lbs. @ 5d. lb.; powder, ½d. lb. extra.
Ammon. Chlor., 99% pulv., 1 cwt. @ 33/- cwt.; 7 lbs. @ 4d. lb.; Batteries, 4/- cwt. extra.
Amyli Pulv., 10 cwt. @ 13/3 cwt.; 2½ cwt @ 13/9 cwt.; 1 cwt. @ 15/3 cwt.
Aniseed, English ground, 1 cwt. @ 35/- cwt.; 7 lbs. @ 5d. lb.
Antim. Crocus Pulv., 1 cwt. @ 33/- cwt.; 7 lbs. @ 5d. lb.
Antim. Nig. pulv., 1 cwt. @ 25/6 cwt.; 14 lb. @ 33/- cwt.
Apiol, 1 lb. @ 13/9 lb.
*Aqua Anethi Conc. 1-40, 1 lb. @ 2/11 lb.
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* „ Cinnam. Conc. 1-40, 1 lb. @ 3/4 lb.
* „ Aurant. Trip., 53 lbs. @ 17/6; 6 lbs. @ 7d. lb.
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* „ Rosæ Trip., 53 lbs. @ 17/6; 6 lbs. @ 7d. lb.
* „ Rosæ Conc. 1-40, 1 lb. @ 6/- lb.
* „ Samb. Trip., 53 lbs. @ 23/6; 6 lbs. @ 8d. lb.
* „ Samb. Conc., 1-40, 1 lb. @ 6/1 lb.
* „ Laurocerasi, 53 lbs. @ 17/6; 6 lbs. @ 7d. lb.
* „ Menth. Pip. Conc. 1-40, 1 lb. @ 3/- lb.
Araroba, fine powder, 7 lbs. @ 4/3 lb.; 1 lb. @ 4/9 lb.
Argent. Nit., 6's to oz., 25 oz. @ 1/8½ oz.; 1 oz. @ 1/10 oz.
„ „ Cryst., 25 oz. @ 1/6 oz.; 8 oz. @ 1/7 oz.
Atropinæ Sulph., P.B., 1 oz. @ 12/9 oz. [4d. lb.
Arsenic, Alb. Pulv., 2 cwt. @ 16/- cwt.; 7 lbs. @
Auri Chlor., 6 doz. 15 gr. tubes @ 18/3 doz.; 1 doz. 15 gr. tubes @ 19/6 doz.
Bals. Copaibæ pure, 44 lbs. @ 2/- lb.; 9 lbs. @ 2/3 lb.; 1 lb. @ 2/6 lb.
Bals. Peruv. P.B., 1 lb. @ 9/- lb.
„ Sulphur, 7 lbs. @ 8*d.* lb.
„ Tolut. B.P., 50 lbs. @ 1/- lb.; 1 lb. @ 1/4 lb.
Benzo-Naphthol, 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
Bismuth, P.B. Carb., 14 lbs. @ 7/9 lb.; 3 lbs. @ 8/1 lb.; subnit., 1/- lb. less.
Boracic Mixture, 1 cwt. @ 38/- cwt.
Borax, 1 cwt. @ 16/9; powder 1/- extra
Butyl Chloral Hydras, P.B., 1 lb. @ 8/10 lb.
Caffeine, P.B., 1 lb. @ 14/- lb.
Caffeinæ Cit. B.P., 1 lb. @ 10/- lb.
Calamina, powder, fine pink, 5 cwt. @ 9/6 cwt.; 1 cwt. @ 10/6 cwt.; 7 lbs. @ 2d. lb.
Calamine B.P., 1885, 7 lbs. @ 9*d.* lb.
Calcii Carb. præcip., 5 cwt. @ 14/6 cwt.; 1 cwt. @ 17/- cwt.; 28 lbs. @ 19/- cwt.
„ Hydras, P.B., 1 cwt. @ 25/- cwt.; 7 lbs. @ 5d. lb.
„ Hypophosph. Pur. P.B. 1 lb. @ 2/3 lb.
„ Iodid., 1 lb. @ 14/6 lb.
Camphor, English Flowers, "not artificial," 5 lbs. @ 1/10 lb.; ½ oz. 7 lbs. @ 1/11 lb.; ¼ oz; 7 lbs. @ 2/3½ lb. Crude, good white about 92% as imported, 140 lbs. @ 1/4 lb.; 28 lbs. @ 1/5 lb. [5d. lb. extra.
Cantharides, Russian, 7 lbs. @ 3/9 lb.; powder,
Capsicine, soluble, 1 lb. @ 6/6 lb.
Carbo Animalis or Ligni, powder or lump, 1 cwt. @ 14/- cwt; 28 lbs. @ 2d. lb. [13/- lb.
Carmine, Finest, 1 lb. @ 17/- lb.; No. 2, 1 lb. @
Cera Alba, B.P., White Moons, 1 cwt. @ 1/6½ lb.; 28 lbs. @ 1/7½ lb.; 4 lbs. @ 1/8 lb. Flav. 1 lb. Blocks, 28 lbs. @ 1/6½ lb.; 4 lbs. @ 1/7½ lb.; 1 oz., ½ oz. Tabs., 7 lbs. @ 1/7½ lb.
Cerii Oxalas, 7 lbs. @ 1/2 lb.
Cetaceum: No. 1, fine white, 64 lbs. @ 1/3 lb.; 7 lbs. @ 1/4½ lb.; powder, 7 lbs. @ 1/10 lb.
Chloral Hydras Cryst. B.P., 7 lbs. @ 4/2 lb.; 1 lb. @ 4/6 lb.
*Chlorodyne, 5 lbs. @ 1/11 lb.
***Chloroform**, pure B.P., 12 8-lbs. @ 1/7½ lb.; 8 lbs. @ 1/8½ lb.; 6 1-lb. botts. @ 1/10½ lb.
Chlorophyll, 7 lbs. @ 5/- lb.; 1 lb. @ 5/9 lb.
Cocaine Hydrochlor. B.P., 25 ozs. @ oz.; 4 ozs. @ 7/10 oz.; 1 oz. @ 8/- oz.
Codeina, 1 oz. @ 12/8 oz.; Phosph., 1 oz. @ 10/11 oz.; Hydrochlor. or Sulph. 1 oz. @ 11/9 oz.
Colocynth, Apple, English ground, 1 cwt. @ 10½d. lb.; 28 lbs. @ 11d. lb.; 7 lbs. @ 1/0½d. lb.; Pulp, 2 cwt. bales @ 7d. lb.; 7 lb. @ 10d. lb.
Composition Powder (Coffin's), 1 cwt. @ 58/- cwt.; 7 lbs. @ 7½d. lb.
Conf. Sennæ P.B., 14 lbs. @ 8d. lb.; 7 lbs. @ 8½d. lb.
Cort. Aurant. Exot. Shreds, 1 cwt. @ 6½d. lb.; 7 lbs. @ 8d. lb.
„ Cinchon. Rub. (Quill), 7 lbs. @ 1/- lb.
Cort. Ulmi Fulvæ, English Ground, 1 cwt. @ 8½d. lb.; 7 lb. @ 10d. lb.
Cream Tartar, 98% powder, 1 cwt. @ 72/6 cwt.; 7 lbs. @ 9d. lb.
Creosotum Beechwood, P.B., 22 lbs. @ 1/10 lb.; *7 lbs. @ 2/- lb.
Creta c. Camp., 7 lb. @ 8d. lb.
„ Gall. Pulv., in sacks, 10 cwt. @ 6/- cwt.; 1 cwt. @ 7/- cwt.; 14 lbs. @ 1½d. lb.
Creta Præparata, 7 lbs. in box, 9d. each.
Cubebæ, English Ground, 28 lbs. @ 1/9 cwt.; 7 lbs. @ 1/11 lb.
*Dec. Aloes Co. Conc. 1-2, 6 lbs. @ 2/4 lb. Sine croco, 6 lbs. @ 1/2 lb. [lb.
*Dec. Cincbonæ (Rubræ) Conc. 1-7, 6 lbs. @ 1/10
*Dec. Senegæ Conc., 6 lbs. @ 2/1 lb.
Dionine, 15 grains @ 1/8; ¼ oz. @ 9/-.
Emp. Spread 12 yds. × 16 ins. Adhesive, 3/8; Bellad. B.P.C. Green @ 16/6; Cerat. Saponis @ 7/6; PicisCo. @ 7/6; Plumbi @ 6/-; Resiu @ 4/6; Roborans @ 6/-; Sapouis B.P. @ 6/-.
Emp. Picis, P.B., 7 lbs. @ 8½d. lb.
„ Plumbi, P.B., 7 lbs. @ 8½d. lb.
„ Resinæ, P.B., 7 lbs. @ 8½d. lb.
Emp. Roborans, 7 lbs. @ 8½d. lb.
Emulsio Ol. Morrhuæ, 10 lbs. @ 6½d. lb.
Eserine Sulph. in 15 grain tubes, 3/- each.
Ess. Bergam. (Oil), 12 lbs. @ 14/- lb.; 1 lb. @ 15/6 lb., not guaranteed absolutely pure.
Ess. Limonis (oil) original coppers, 12 lbs. @ 3/6 lb.; 6 1-lb. bots. @ 4/- lb., not guaranteed absolutely pure.
*Ess. Moschi (not artificial), 5 lb. @ 10/3 lb.; 1 lb. @ 11/3 lb.
*Ess. Pear (artificial), Jargouelle, 5 lbs. @ 1/6 lb.; Bergamot, 2/6 lb.
*Ess. Pineapple, 5 lbs. @ 3/4 lb.
* „ Raspberry, 5 lbs. @ 2/- lb.; 1 lb. @ 2/4 lb.
* „ Vanilla Beans, 5 lbs. @ 4/4 lb.; 1 lb. @ 4/7 lb.
*Ext. Belladonnæ Liq. B.P., 5 lbs. @ 4/7 lb.; 1 lb. @ 5/- lb.; solid, 7 lbs. @ 2/11 lb.
Ext. Cannab. Ind. Alc. B.P., 5 lbs. @ 36/- lb. 1 lb. @ 37/- lb.
Ext. Cascara Sag. Liq., B.P., 10 lbs. @ 1/2 lb. [3/2 lb.
*Ext. Ergot. Liq. P.B., 5 lbs. @ 2/11 lb.; 1 lb. @
Ext. Filicis Liq., P.B., 9 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb. [9½d. lb.
Ext. Gent., P.B., Solid, 1 cwt. @ 8½d. lb.; 7 lbs. @
* „ Glycyrrh. Liq. B.P., 6 lbs. @ 1½½ lb.
* „ Hamamelis, Liq. P.B., 5 lbs. @ 3/5 lb.
Ext. Hyoscyam., Solid, B.P., 3 lbs. @ 5/6 lb.; 1 lb. @ 5/11 lb. [11/3 lb.
*Ext. Ipecac. Liq. P.B., 5 lbs. @ 10/6 lb.; 1 lb. @
„ Malti c. Ol. Jecoris, 10 lbs. @ 5½*d.* lb.
***Ext. Nucis Vom. Liq. B.P.**, 5 lbs @ 3/- lb.; 1 lb. @ 3/3 lb.; solid, 5 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.
„ Opii Solid P.B., 1 lb. @ 39/- lb. [4/2 lb.
* „ Opii Liq. B.P. 5 lbs. @ 3/11 lb.; 1 lb. @
„ Quassiæ, Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6/4 lb.
Ext. Sarsæ Co. Solid; 7 lbs. @ 4/- lb.; 1 lb. @ 4/6 lb.
Ferri Ammon. Cit., P.B., 28 lbs. @ 1/4¾ lb.; 7 lbs. @ 1/7 lb.
Ferri Carb., 1 cwt. @ 21/- cwt.; 28 lbs. @ 3d. lb.
Ferri et Quininæ Cit., P.B.; 500 ozs. @ 3d. oz.; 100 ozs. @ 3½d. oz.; 25 ozs. @ 3½d. oz.
Ferri Sulph., pure cryst., 1 cwt. @ 15/-; 7 lbs. @ 3d. lb. [1/3 lb.
Ferrum Redact. 80%, 28 lbs. @ 1/1 lb.; 7 lbs. @
Flor. Anth. Exot., No. 1. 1 cwt. @ 95/- cwt.; 28 lbs. @ 100/- cwt.; 7 lbs. @ 1/- lb.; No. 2, 1 cwt. @ 80/-.
Fol. Buchu, round good green, 7 lbs. @ 1/9 lb.
Fol. Hyoscyam. Bien., 7 lbs. @ 6/3 lb.; pulv. 5/3 lb.
Fol. Senuæ Alex. parv. 1 cwt. @ 4d. lb.; 28 lbs. @ 4½*d.* lb.
Fol. Senuæ Tinnev. 3½ cwt. @ 2½d. lb.; 1 cwt. @ 3½d. lb.; 7 lbs. @ 3½d. lb.; English Ground, 1 cwt. @ 5¾d. lb.; 56 lb. @ 6d. lb.; 7 lbs. @ 7d. lb.
Formaldehyde, 40%, 132-lb. Carboys @ 52/- each. 7 lbs. @ 7½d. lb.
Fuller's Earth, fine powder or lump, 5 cwt. @ 5/- cwt.; 1 cwt. @ 6/- cwt.
Gallæ Caerul. Pulv., 7 lbs. @ 1/- lb.
Gamboge English Ground, 7 lbs. @ 4/- lb.; 1 lb. @ 4/4 lb.
Ginger, English Ground, 1 cwt. @ 52/- cwt.; 7 lbs. @ 6½*d.* lb. [10/- lb.
Gingerine, Extra, 5 lbs. @ 9/6 lb.; 1 lb. @
Glycerin. Opt., D.D., 1·260 P.B., 1 cwt. @ 95/- owt.; 56 lbs. @ 96/- cwt.; 12 lbs. @ 1/0½ lb.
*Glycerin. Acid. Boric P.B., 6 lbs. @ 1/4 lb.
*Glycerin. Acid. Carbolic P.B., 6 lbs. @ 1/4 lb.
* „ Acid. Tannic, P.B., 6 lbs. @ 1/4 lb.
* „ Belladon. B.P.C., 6 lbs. @ 2/6; 1 lb. @ 2/9 lb.
*Glycerin. Boracis P.B., 6 lbs. @ 1/1 lb.
*Glycerin. Pepsine Acid P.B., 1 lb. @ 3/1 lb.
*Glycerine Plumbi, subacet., P.B., 6 lbs. @ 1/5 lb.
Gran. Parad., 1 cwt. @ 75/- cwt.; 7 lbs. @ 9d. lb.; Powder, 7 lbs. @ 10d. lb.
Guaiacol Carb., 7 lbs. @ 7/8 lb.; 1 lb. @ 8/- lb.
Guaiacol, pure, 1 lb. @ 5/10 lb.
Gum Acaciæ sorts, 3 cwt. @ 38/- cwt.; 1 cwt. @ 45/- cwt.; 7 lbs. @ 5½d. lb.; English Ground Powder, No. 1, 1 cwt. @ 95/- cwt.; 7 lbs. @ 1/- lb.; No. 2, 1 owt. @ 60/- cwt.; 7 lbs. @ 8d. lb. [@ 1/6 lb.
Gum Benzoin, Sumatra, 84 lbs. @ 1/4 lb.; 7 lbs.
Gum Catechu, Nig. English Ground, 1 cwt. @ 50/- cwt.; 14 lbs. @ 6d. lb.
Gum Guaiaci, 1 cwt. @ 10½d. lb.; 28 lbs. @ 1/- lb.
Gum Juniper, 14 lbs. @ 10d. lb.
Gum Thus Elect., 2½ cwt. @ 28/- cwt.; 28 lbs. @ 32/3 cwt.
Gum Tragac. Elect., English Ground, 7 lbs. @ 3/6 lb.; 1 lb. @ 3/9 lb.
*Heading (Frothing Ess.), 5 lbs. @ 1/1 lb.

***Minimum quantity at these prices, Home Trade, 3 Winchester Quarts assorted. Export, 12 Winchester Quarts assorted.**

NOTE.—Only Terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

ALLIANCE DRUG & CHEMICAL CO., LONDON.

Office: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK

FREEMAN'S CHLORODYNE

(THE ORIGINAL AND ONLY TRUE)

Invented by Richard Freeman, Pharmacist, in 1844.

A recognised specific for Coughs, Colds, Asthma, Bronchitis, Neuralgia, Influenza, Diarrhœa, Dysentery, Colic, Cholera, Gout, and Fevers of all kinds. Freeman's Chlorodyne is used and recommended by the Profession, and is the one Chlorodyne that does not cause headache. It is essentially different from any other and cannot be imitated.

At the advertised prices Freeman's Chlorodyne yields you **60%** profit, and even when sold at Store prices there is still 2d. profit on each small bottle—very fair, don't you think, for merely handing the article over your counter?

	Advertised @ per bottle.	Wholesale per dozen.	
No. 1 size.	1/1½	8/6	Special terms for large quantities.
No. 2 ,,	2/9	21/-	
No. 3 ,,	4/6	36/-	

FREEMAN'S CHLORODYNE, LTD.
70 KENNINGTON PARK ROAD, LONDON, S.E.

Substitutes will NOT give your customers the same degree of satisfaction.

TRADE MARK

NEPENTHE.

THE SAFEST AND BEST PREPARATION OF OPIUM.

In 2-oz., 4-oz., 8-oz., and 16-oz. bottles.

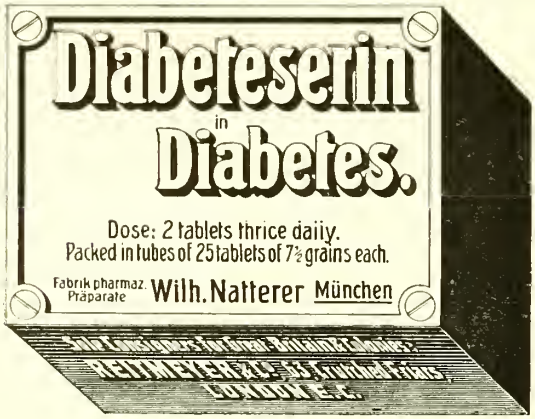
GLYCEROLE OF NEPENTHE (eight times the single strength) for hypodermic injection. In 1 oz. Bottles.

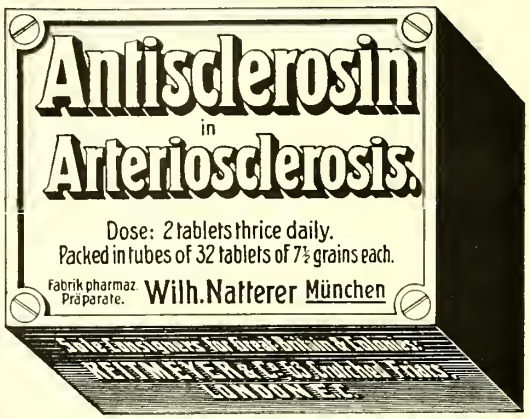
NEPENTHE SUPPOSITORIES in four strengths. Equivalent to ⅛, ¼, ½, and 1 grain Morphia.

The word "NEPENTHE" is registered under the Trade Marks Act, and is the exclusive property of Ferris & Company, Ltd. We have from time to time been compelled to obtain injunctions in the Courts by which Defendants were perpetually restrained from dispensing, selling, or supplying under the name of "NEPENTHE," or any colourable imitation thereof any medical preparation not prepared by us, and from in any manner infringing our Trade Mark "NEPENTHE" (No. 464), and were ordered to pay the costs of the actions.

The Trade are respectfully warned against any infringement of our Trade Mark "NEPENTHE," or the use of any name so nearly resembling it as to be calculated to deceive, and also against dispensing any but "Ferris & Co.'s" preparation when "NEPENTHE" is ordered in a prescription.

FERRIS & CO., LTD., BRISTOL.





PRECIPITATED CRETA PRÆCIP.

The Well-Known

"Sturge's Chalk."

CHALK.

All grades from the **FINEST LIGHT** to **VERY DENSE.**

MANUFACTURED BY

JOHN & E. STURGE, 18 Wheeleys Lane, **Birmingham.**

Agents:

THE NATIONAL ANILINE & CHEMICAL CO., 100 William St., NEW YORK.
ALPHONSE RUCH, 63 Rue des Archives, PARIS.

Also Manufacturers of—

CITRIC ACID, BICARBONATE OF POTASH, ROCHELLE SALTS and pulv. SEIDLITZ, FLUID MAGNESIA, and "CITRATE OF MAGNESIA," and other Effervescent Saline Preparations.

Telegrams "Sturgeon, Birmingham."

HERM. MADOERY, BASLE, Switzerland.

PHARMACEUTICAL PRODUCTS.

Specialities: Alkaloids, Bismuth Salts, Silver Salts, Guaiacol derivates, all Substitutes, &c. &c.

VANILLINE, Chem. Pure, 100 %,
ARTIFICIAL SUGAR, 550 times sweeter than cane sugar.

PHOTOGRAPHIC DEVELOPERS:
Hydroquinone, Hermadol, Diamidophenol-Chlorhydrate.

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THE "GIANT" REMEDY.

Tel. Add.: "Giant, Plymouth."

BOX'S PILLS

WRITE FOR TRADE TERMS.

Re-christened by the Americans

"The Great English Remedy."

1s. 1½d., 2s. 9d., 4s. 6d., 11s., and £1 1s.

Prepared only by

W. H. BOX, 161 KING ST., PLYMOUTH.

MATHIESON'S SYRUP OF IODINE

THE GOLDEN REMEDY FOR—

CONSUMPTION and all Tuberculous Skin Diseases.

IT IS PLEASANT TO TAKE, AND CHILDREN LIKE IT.

LONDON AGENTS:

Messrs. WALKER & SON.

4 Savoy Street, Strand, London.

Think over this

SPECIAL OFFER OF

NEWBALL & MASON

BALSAM OF ANISEED

THERE'S NO TROUBLE.
FINE PROFIT.
SELLS QUICKLY.

YOU CAN MAKE IT A BUSINESS BRINGING LINE.

SPECIAL TERMS:

1 GROSS, **18/6.**

On sale or return for six months.
ALL CARRIAGE PAID.

LABEL ON WRAPPER:

CONTAINS NO NARCOTIC.
POPULAR
BALSAM ANISEED COMPOUND. 3D. per bot.
WARMING AND COMFORTING.

NEWBALL & MASON
Nottingham.

"LINSEED COMPOUND"

Regd. Trade Mark of "Kay's Compound Essence of Linseed."
(Now upon the P.A.T.A.)

The above is a well advertised remedy of over 40 years' proven efficacy for the relief of Coughs and Colds.

Supplied by all the Wholesale Houses in London and the Provinces.

"COAGULINE" Transparent Cement for broken articles, **6d.** bottles.

"TENASITINE" A Liquid Cement in Tubes, **1d., 2d., 3d.** & **6d.**

"KLINX" Hydraulic Cement (heatproof), **6d.** Tins.

Also Sole Makers of:
"KAY'S TIC PILLS."
"KAY'S LINUM CATHARTICUM PILLS."
"KAY'S CHLORO LINSEED COUGH LOZENGES."

KAY BROTHERS Ltd.
STOCKPORT, ENGLAND.

Telegrams: "Kay Stockport." Telephone 247 Nat.

ICHTHYOL

WE warn buyers that fraudulent and ineffective articles purporting to be Ichthyol, or "equal to Ichthyol," are offered by unscrupulous dealers.

Genuine Ichthyol, as it has been studied and is wanted by the Medical Profession and supplied all the time to the Trade, is delivered by us in tins and bottles under our special label with our name. The use of our registered trade mark "ICHTHYOL" for any other product means deception and dishonesty, and will entail their penalties.

Physicians, Chemists, and Druggists are requested to report to us all cases where imitation products are suspected.

ICHTHYOL COMPANY,
CORDES HERMANNI & CO.,
Hamburg.

INDIA.

PEAKE, ALLEN & CO.

CHEMISTS, DRUGGISTS,
AND
GENERAL MERCHANTS,
LUCKNOW, OUDH, INDIA,

Possess exceptional facilities for the introduction of NEW SPECIALITIES, Patent Medicines, Druggists' Sundries, Perfumery, &c.

ESFON

The Nerve Food.

A Powder-Food that CURES.
Reinforces the NERVES.
Strengthens the system.
Appeals especially to Vegetarians.
Most palatable and really curative.
Interesting booklet on the relation of food to the nervous system.
A booklet on the counter and the Food sells itself.
Minimum retail price, 1/6, 3/-, 6/-.

ESFON

C. J. BURT,
12 & 13 Henrietta St., London, W.C.

TRADE MARK
PATENTED.

SPIDER BRAND

ALKALOIDS—SALLE.

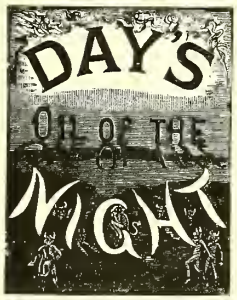
Arecoline.	Perborate of Soda.
Cantharidine.	Pelletierine tannate.
Colchicine.	Pilocarpine.
Digitaline cryst. (digitoxine).	Quassine.
Ergotine.	Rinonine.
Eserine.	Sparteine.
Lecithine	Veratrine.
	Yohimbine.

French Alkaloid Works :—

H. SALLE & CO., PARIS.

Sole Agents: F. WACHENDORFF & CO.
37 CRUTCHED FRIARS, LONDON, E.C.

DAY'S OIL OF THE NIGHT



The great household Remedy for Chest Colds, Sore Throat, Rheumatism, Sciatica, & all aches & pains.

"A positive pain killer."—DR. GORDON STABLES, R.N.

Advertised Prices ... **1/1½** and **2/9** per bottle.
Trade Prices ... **10/-** and **25/-** per dozen.

CARRIAGE PAID.

Proprietors :— **DAY & SONS, CREWE, LTD., CREWE.**

COD LIVER OIL

Holm's O.H. Gold Medal Brand

of Non-Freezing Norwegian Cod Liver Oil.

Wholesale Agents for United Kingdom:

A. ALBRETHSON & CO., Telegrams: "Albrethson, Glasgow."
41 ANN STREET, GLASGOW.

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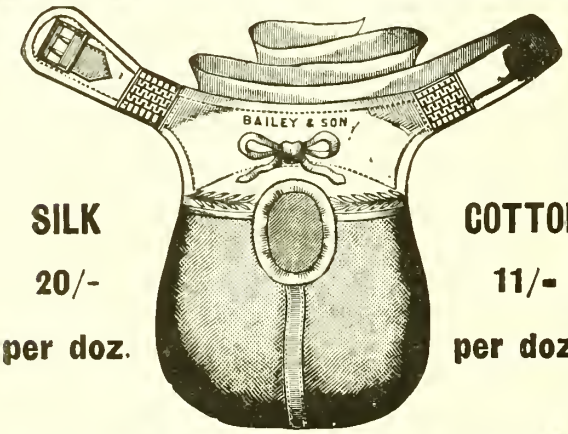
WILSON & MANSFIELD, Telegrams: "Wyfield, London."
19 ST. DUNSTAN'S HILL, LONDON, E.C.

We've never met a woman who didn't appreciate quality, and we've never met a woman who wasn't pleased with her

DUNLOP
WATER BOTTLE.

DUNLOP RUBBER CO. LTD.
Manor Mills, Aston, BIRMINGHAM.

BAILEY'S
"A.B.C."
SUSPENSORIES.



SILK 20/- per doz.

COTTON 11/- per doz.

Assorted—A, small; B, medium; C, large bags.

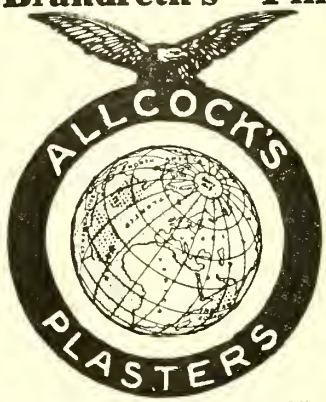
W. H. BAILEY & SON,
38 OXFORD STREET, LONDON. W. (3)

The Original and only Genuine

Allcock's
POROUS **PLASTERS**

A REMEDY OF 60 YEARS' STANDING.

Allcock's Plasters
Allcock's Corn and Bunion Plasters
Brandreth's Pills
The Three Reliables.



A HANDSOME SHOWCARD will be sent free of cost and post paid on application.

ALLCOCK MANUFACTURING COMPANY
22 Hamilton Sq., Birkenhead.

"Sold all round the World."

HOT-WATER BOTTLES

GUARANTEED FOR 2 YEARS.

Both "heavy" and "light" bottles are made from **best quality** rubber.

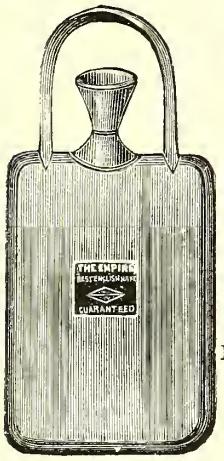


Fig. 955.
TOP HANDLE.

SIZES.	HEAVY. s. d.	LIGHT. s. d.	PLUSH COVERS. s. d.
6 × 8 inch	2 8 each	2 5 each	0 8 each
6 × 10 ,,	3 0 ,,	2 8 ,,	0 8 ,,
6 × 12 ,,	3 5 ,,	3 1 ,,	0 10 ,,
8 × 10 ,,	3 8 ,,	3 2 ,,	0 10 ,,
8 × 12 ,,	4 2 ,,	3 7 ,,	0 11 ,,
8 × 14 ,,	4 9 ,,	4 2 ,,	0 11 ,,
10 × 12 ,,	4 9 ,,	4 2 ,,	0 11 ,,
10 × 14 ,,	5 4 ,,	4 10 ,,	1 0 ,,
12 × 14 ,,	6 2 ,,	5 7 ,,	1 2 ,,

N.B. Owing to the recent enormous rise in the price of raw rubber we are compelled to add an advance of 10% on above prices. This advance will be taken off the moment the state of the market permits, but as the present indications point to still higher prices, we strongly advise all our friends to place their orders for winter stock at once.

Each one in neat paper bag with directions for using.

For orders of two dozen bottles assorted we will put rubber tablet with customer's name on free of charge.

Fig. 957.
SIDE HANDLE.

5% discount allowed for prompt cash off above prices. Carriage paid on orders of £2 and upwards to any town in the United Kingdom.

OUR GOODS ARE RIGHT AND PRICES LOW.

WRITE FOR NEW ILLUSTRATED PRICE LIST, POST FREE.

BURGE, WARREN & RIDGLEY, LIM., 91 & 92 GREAT SAFFRON HILL, LONDON, E.C.

J. H. HAYWOOD, Lim.

Surgical and Athletic Appliance Manufacturer,

CASTLE GATE, NOTTINGHAM. and 16 SILVER STREET, WOOD ST., LONDON, E.C.

SPECIALITIES FOR WINTER.

CHEST PROTECTORS. CHAMOIS VESTS. LUMBAGO BELTS AND PADS.

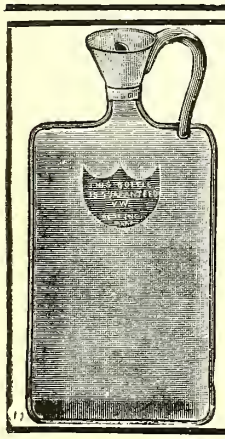
BELTS FOR LADIES AND GENTLEMEN, FOR WARMTH AND SUPPORT.
Made in Fleecy Felt, Chamois, &c.

SLEEPING SOCKS. MAGNETIC AND OTHER SOCKS TO PUT IN BOOTS. CHILBLAIN SOCKS.

WRISTLETS AND ELBOW SUPPORTS
In India Rubber, Leather, &c., for CRICKETERS, GOLFERS and HOCKEY PLAYERS.

HOT WATER BOTTLE COVERS, in Felt, Flannel, Plush, &c. CRICKET, FOOTBALL & HOCKEY GUARDS

Invalids waited upon at their own Residence (by Lady Attendant) if wished.



VINCENT WOOD

For BRITISH MADE

Hot-Water Bottles.

One Quality only—
GUARANTEED RELIABLE.
10 × 8 3/6, 12 × 8 4/- each, plus 10%
Other Sizes in Proportion.

Also NEW COVERS.

CHEST AND LUNG PROTECTORS, WINTER BODY BELTS, TRUSSES, ELASTIC HOSIERY, and Surgical Appliances generally.

4 Albion Place, Blackfriars Bridge,
Send for List. LONDON, S.E.

THE NEW

'ADAPTABLE' HOT WATER BOTTLE

(REGISTERED DESIGN.)

Suitable for many purposes for which the old-fashioned shape is useless

For BED WARMERS.
For CARRIAGES.
For MOTOR CARS.
For INVALIDS, &c.

Customers can have their names, &c. printed on reverse side.

LOW PRICES. BIG DISCOUNT.
Sole Manufacturers :—

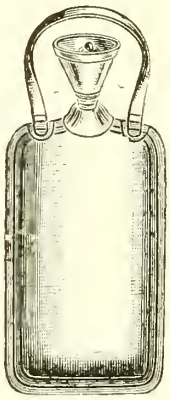
The Fulham Pottery & Cheavin Filter Co., Ltd., FULHAM, LONDON, S.W

THE HUTCHINSON CO.

. . OFFER . .

TWO SPLENDID SELLING LINES.

PRICES RIGHT!



HOT WATER BOTTLES.

Our "Vanoric" Range withstand the hardest wear, and are thoroughly up to date.

QUALITY RIGHT!

"HEFTBAND" BANDAGES.

Antiseptic. Always ready for use. The easiest applied of all bandages.

Current Price List forwarded on demand. *Goods stocked by all the Leading Houses.*

THE HUTCHINSON COMPANY, 70 Basinghall St., LONDON, E.C.

Conoids are the new system of Medical Treatment.

REGISTERED CONOID REGISTERED 312887.

THE CONOID COMPANY, 174 Corporation Street, Birmingham.

CONOID PINE WOOL

CHEST PROTECTORS

Are made from the finest quality of Pine Cotton Wool and are very light in weight and comfortable to wear. They allow free ventilation and do not overheat the body.

Have a Small Glass Capsule securely embedded in the centre. This Capsule is broken when the Protector is about to be used, so that however long it may have been kept its efficacy is not impaired.

On breaking the Capsule, which is done just before wearing the Protector, a Medicated Atmosphere is created which the user necessarily inhales constantly.

No. 2. **17/3** per dozen, retailed @ **1/10½** each.

No. 3. **19/6** per dozen, retailed @ **2/3** each.

No. 4. **22/-** per dozen, retailed @ **2/6** each.

No. 5. **26/6** per dozen, retailed @ **3/-** each.

P.A.T.A.

May be obtained through any Wholesale House.

A quick-selling and effective Cure for Eczema, Piles, and all Skin Diseases.

SPHAGNOL

SOAP, OINTMENT, and SUPPOSITORIES.

EXTENSIVELY ADVERTISED to the GENERAL PUBLIC and in CONSTANT DEMAND.

Chemists are invited to write for free samples and advertising matter.

Peat Products (Sphagnol) Ltd.

18 & 19 QUEENHITHE, UPPER THAMES STREET, LONDON, E.C.

DISPENSING BOTTLES & PHIALS

I. ISAACS & CO.'S REDUCED PRICES

106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.

The New Shape, Oval Fronted Bottles, 6 ounce size, 8/6 per gross

A Sample Free on Application.

FIRST QUALITY.

3 & 4 6 & 8 12 16 ounce.
9/- 10/- 15/- 20/- per gross } Round edges, plain or graduated, quinine tinted.

SECOND QUALITY.

3 & 4 6 & 8 12 16 ounce.
7/6 8/6 12/- 18/- per gross } Round edges, plain or graduated, clear blue tinted.

PANEL BOTTLES (New Series), Green or Blue Glass. Good Quality.

2 2½ 4 6 8 10 ounce.
7/- 7/6 8/- 9/- 9/6 12/- per gross. } In ordering please say if green or blue is required.

WHITE PHIALS—GOOD QUALITY.

½ 1 1½ 2 ounce.
3/6 4/- 4/6 5/6 per gross } Plain or teaspoons.

Six gross and upwards, assorted or otherwise, sent carriage paid to any address in the United Kingdom. Smaller quantities not carriage paid.

Established 120 years. Bankers: London County and Westminster Bank.

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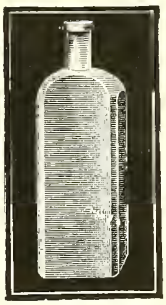

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